UNIFORM BUILDING CODE COMMISSION MEETING
July 14, 2021 9:00 AM

AGENDA

Anchor Location
North Conference Room
Heber M Wells Building
160 E 300 S
Salt Lake City UT

Join with Google Meet
meet.google.com/baf-yqir-rga

Join by phone
(US) +1 617-675-4444 PIN: 798 985 670 6200#

Welcome, and reimbursement sheet

1. Approve minutes from December 17, 2020 meeting
2. Review proposed amendments to Title 15A

IBC Section 107.3.1	IRC Chapter 44
IBC Section 107.3.4	IPC Section 608.1.2.1
IRC Section R327	IMC Section 908.1
IRC Section M1402.1	IMC 918.1
IRC Section M1403	IMC 918.2
IRC Section M1412.1	IMC 1101.2
IRC Section M1413.1	IMC1101.6
IRC Section P2902.1.2.1	IMC Chapter 15
IRC Section P2913.4.2	

Please call Sharon at 530-6163 if you do not plan on attending the meeting.

-Posted to the web 7-2-21

In compliance with the Americans with Disabilities Act, individuals needing special accommodations (including auxiliary communicative aids and services) during this meeting should notify Carol Inglesby, ADA Coordinator, Division of Occupational and Professional Licensing, 160 East 300 South, Salt Lake City UT 84111, Phone 530-6626, at least three working days prior to the meeting.

MINUTES

UTAH
UNIFORM BUILDING CODE COMMISSION

December 17, 2020

9:00

Electronic Meeting

STAFF:
Robyn Barkdull, Bureau Manager
Steve Duncombe, Bureau Manager
Deborah Blackburn, Regulations/Compliance Officer
Sharon Smalley, Board Secretary

COMMISSIONERS:

Christopher Jensen (excused)	Thomas Peterson
Josh Blazzard	Art Anderson
Casey Vorwaller	Karl Mott (excused)
Travis Hales (absent)	Kent Bush
Trent Hunt	Joseph Ligori
Chad Flinders	

VISITORS:

David Smith	Cara Lindsley
Jason VanAusdal	Ross Ford
Mike Stone	

PUBLIC HEARING	Deborah Blackburn conducted a public hearing for the proposed amendments to Title 15A.
SWEAR IN NEW MEMBER	Tom Peterson was sworn in as a new member of the Commission.
MINUTES	A motion was made by Kent Bush to approve the minutes from the November 19, 2020 meeting as written. The motion was seconded by Trent Hunt and passed unanimously.
DRAFT 2021 GENERAL SESSION LEGISLATION – SINGLE FAMILY HOUSING MODIFICATIONS BY	Tom Peterson gave the background for this legislation being sponsored by Representative Ward. The Commission has been asked to give the Business and Labor Interim Committee an in-

REPRESENTATIVE WARD (ACCESSORY DWELLING UNITS)

formal recommendation on the legislation. Questions were asked and answered. Tom Peterson will relay the concerns that were brought up during the discussion on this legislation.

The meeting adjourned at 9:30.

58-22-305. Exemption from licensure.

(1) In addition to the exemptions from licensure in Section 58-1-307, the following may engage in the following acts or practices without being licensed under this chapter:

(a) a person offering to render professional engineering, professional structural engineering, or professional land surveying services in this state when not licensed under this chapter if the person:

(i) holds a current and valid professional engineer, professional structural engineer, or professional land surveyor license issued by a licensing authority recognized by rule by the division in collaboration with the board;

(ii) discloses in writing to the potential client the fact that the professional engineer, professional structural engineer, or professional land surveyor:

(A) is not licensed in the state;

(B) may not provide professional engineering, professional structural engineering, or professional land surveying services in the state until licensed in the state; and

(C) that such condition may cause a delay in the ability of the professional engineer, professional structural engineer, or professional land surveyor to provide licensed services in the state;

(iii) notifies the division in writing of the person's intent to offer to render professional engineering, professional structural engineering, or professional land surveying services in the state; and

(iv) does not provide professional engineering, professional structural engineering, or professional land surveying services, or engage in the practice of professional engineering, professional structural engineering, or professional land surveying in this state until licensed to do so;

(b) a person preparing a plan and specification for a one or two-family residence not exceeding two stories in height;

(c) a person licensed to practice architecture under Title 58, Chapter 3a, Architects Licensing Act, performing architecture acts or incidental engineering or structural engineering practices that do not exceed the scope of the education and training of the person performing engineering or structural engineering;

(d) unlicensed employees, subordinates, associates, or drafters of a person licensed under this chapter while preparing plans, maps, sketches, drawings, documents, specifications, plats, and

reports under the supervision of a professional engineer, professional structural engineer, or professional land surveyor;

(e) a person preparing a plan or specification for, or supervising the alteration of or repair to, an existing building affecting an area not exceeding 3,000 square feet when structural elements of a building are not changed, such as foundations, beams, columns, and structural slabs, joists, bearing walls, and trusses;

(f) an employee of a communications, utility, railroad, mining, petroleum, or manufacturing company, or an affiliate of such a company, if the professional engineering or professional structural engineering work is performed solely in connection with the products or systems of the company and is not offered directly to the public;

(g) an organization engaged in the practice of professional engineering, structural engineering, or professional land surveying, provided that:

(i) the organization employs a principal; and

(ii) all individuals employed by the organization, who are engaged in the practice of professional engineering, structural engineering, or land surveying, are licensed or exempt from licensure under this chapter; and

(h) a person licensed as a professional engineer, a professional structural engineer, or a professional land surveyor in a state other than Utah serving as an expert witness, provided the expert testimony meets one of the following:

(i) oral testimony as an expert witness in an administrative, civil, or criminal proceeding; or

(ii) written documentation included as part of the testimony in a proceeding, including designs, studies, plans, specifications, or similar documentation, provided that the purpose of the written documentation is not to establish specifications, plans, designs, processes, or standards to be used in the future in an industrial process, system, construction, design, or repair.

(j) a person certified by the National Institute for Certification in Engineering Technologies as a level 3 or 4 technician submitting a fire sprinkler system layout, or a fire alarm system layout to the authority having jurisdiction, the fire code official, or the building official for approval.

(k) fire code and building code officials reviewing construction documents for code compliance.

(l) fire code and building code officials conducting inspections for code compliance.

(2) Nothing in this section shall be construed to restrict a person from preparing plans for a client under the exemption provided in Subsections (1)(b) and (1)(j), or taking those plans to a professional engineer for the engineer's review, approval, and subsequent fixing of the engineer's seal to that set of plans.

15A-5-202. Amendments and additions to IFC related to administration, permits, definitions, and general and emergency planning.

(1) For IFC, Chapter 1, Scope and Administration:

(c) IFC, Chapter 1, Section 105.4.1 Submittals, following the last sentence add the following:

Fire sprinkler system layout and fire alarm system layout may be prepared and submitted by a person certified by the National Institute for Certification in Engineering Technologies as a level 3 or 4 technician.

(Beginning with the existing (1)(c) this section will need to be renumbered)

JUN 2 9 2020

UTAH DEPARTMENT OF COMMERCE
DIVISION OF OCCUPATIONAL AND PROFESSIONAL LICENSING
160 East 300 South Salt Lake City UT 84111
PO Box 146741 Salt Lake City UT 84114-6741
E-mail: dansjones@utah.gov
Web www.dopl.utah.gov

REQUEST FOR CODE AMENDMENT

Requesting Agency/Person: Chemours Fluorochemicals	Date: 6/17/2020
Street Address: 2 Rose Ct.	
City, State, Zip Pasco, WA 99301	
Contact Person: Andrew Klein, P.E.	Phone: 509-380-5995
Code to be Amended: 2018 International Residential Code (Include edition)	
Section: M1402.1, M1403.1, M1412.1, M1413.1, 4401.3	
Section Title: General, Heat pumps, Approval of equipment, General, Referenced Standards	

AMENDMENT:

Type proposed amendment in rule change form. (Using strikeout on portions being removed and underline on all new wording.)

1. Include the entire section you wish to amend.
2. Attach additional sheets if necessary.

Please see attached showing the amended language in rule change form.

Purpose of or Reason for the amendment:

The latest edition of this UL/CSA 60335-2-40 standard is the 3rd Edition – 2019. The references to ANCE as a sponsor of this standard are proposed to be removed since ANCE in Mexico withdrew from the 3rd Edition and is no longer associated with this standard after the 2nd Edition.

Please see attached for more information.

Cost or Savings Impact of Amendment:

The amendment will not affect the cost of construction.

Compliance Costs for Affected Persons (APerson@ means any individual, partnership, corporation, association, governmental entity, or public or private organization of any character other than an agency.) (You must break out the impact cost to State Budget, Local Government and you must state aggregate cost to other persons {cost per person times number of persons affected}):

The amendment does not affect compliance costs..

Signature:	Date: 6/17/2020

For Division Use:

Date Received:	
Committee Action: ☐ Approved ☐ Denied ☐ Approved with revisions ☐ Referred to: ☐ Tabled	**UBC Commission Decision for Hearing:** ☐ Approved for hearing ☐ Denied ☐ Approved with revisions ☐ Referred to: ☐ Tabled
Date Filed:	Public Hearing Date:
UBC Commission Decision for Adoption: ☐ Approved ☐ Denied ☐ Approved with revisions ☐ Referred to: ☐ Tabled	Effective Date:

Revisions to the 2018 International Residential Code

Section M1402 Central Furnaces

M1402.1 General

Oil-fired central furnaces shall conform to ANSI/UL 727. Electric furnaces shall conform to UL 1995 or UL/CSA 60335-2-40.

Section M1403 Heat Pump Equipment

M1403.1 Heat pumps

Electric heat pumps shall be listed and labeled in accordance with UL 1995 or UL/CSA~~/ANCE~~ 60335-2-40.

Section M1412 Absorption Cooling Equipment

M1412.1 Approval of equipment

Absorption systems shall be installed in accordance with the manufacturer's instructions. Absorption equipment shall comply with UL 1995 or UL/CSA~~/ANCE~~ 60335-2-40.

Section M1413 Evaporative Cooling Equipment

M1413.1 General

Evaporative cooling equipment and appliances shall comply with UL 1995 or UL/CSA~~/ANCE~~ 60335-2-40 and shall be installed:

Chapter 44 Referenced standards

4401.3 Referenced standard list

~~**ANCE**~~

~~Association of the Electric Sector~~
~~Av. Lázaro Cardenas No. 869~~
~~Col. Nueva Industrial Vallejo~~
~~C.P. 07700 México D.F.~~

~~Standard referenced~~	~~Title~~
~~NMX-J-521/2-40-ANCE—2014/ CAN/CSA-22.2 No. 60335-2-40—12/ UL 60335-2-40:~~	~~Safety of Household and Similar Electric Appliances, Part 2-40: Particular Requirements for Heat Pumps, Air-Conditioners and Dehumidifiers~~

ASHRAE

ASHRAE
1791 Tullie Circle NE
Atlanta, GA 30329

Standard referenced	Title
34—~~2016~~ 2019:	Designation and Safety Classification of Refrigerants

CSA

CSA Group
8501 East Pleasant Valley Road
Cleveland, OH 44131-5516

Standard referenced	Title
CAN/CSA/C22.2 No. 60335-2-40-~~2012~~ 2019	Safety of Household and Similar Electric Appliances, Part 2-40: Particular Requirements for Electrical Heat Pumps, Air-Conditioners and Dehumidifiers-3rd edition

UL

UL LLC
333 Pfingsten Road
Northbrook, IL 60062

Standard referenced	Title
1995—~~2011~~2015:	Heating and Cooling Equipment~~—with revisions through July 2015~~
UL/CSA~~/ANCE~~ 60335-2-40-~~2012~~ 2019:	Safety of Household and Similar Electrical Appliances, Part 2-40: Particular Requirements for ~~Motor Compressors~~ Electrical Heat Pumps, Air-Conditioners and Dehumidifiers-3rd Edition

Rationale: The latest edition of this UL/CSA 60335-2-40 standard is the 3rd Edition – 2019. The references to ANCE as a sponsor of this standard are proposed to be removed since ANCE in Mexico withdrew from the 3rd Edition and is no longer associated with this standard after the 2nd Edition.

This proposal is to update this referenced standard to the 2019 edition. This would allow for products approved to the latest version of the newest UL Standard to be included. Many manufacturers will be transitioning away from UL 1995 to UL 60335-2-40 for new products over the next few years, because

UL 1995 be obsoleted effective 1/1/2024 (please see attached timeline from UL). The newest 3rd edition of UL 60335-2-40, published November 2019, has many new requirements for electrical and refrigerant safety. The 3rd edition includes requirements for UV-C germicidal lamp systems, CO_2 systems, photovoltaic systems, new marking requirements, water ingress rating system as well as allowances for Low GWP Group A2L refrigerants. ASHRAE 34-2019 includes many new Low Global Warming Potential (GWP) refrigerants that do not appear in previous editions of the standard. It should be noted that the 2021 ICC International Residential Code references the 2019 edition of ASHRAE 34.

The titles shown in Section 4401.3 for UL/CSA 60335-2-40 has been updated to reflect current title of the standards.

UTAH DEPARTMENT OF COMMERCE
DIVISION OF OCCUPATIONAL AND PROFESSIONAL LICENSING
160 East 300 South Salt Lake City UT 84111
PO Box 146741 Salt Lake City UT 84114-6741
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Web www.dopl.utah.gov

REQUEST FOR CODE AMENDMENT

Requesting Agency/Person: Chemours Fluorochemicals	Date: 6/17/2020
Street Address: 2 Rose Ct.	
City, State, Zip Pasco, WA 99301	
Contact Person: Andrew Klein, P.E.	Phone: 509-380-5995
Code to be Amended: 2018 International Mechanical Code (Include edition)	
Section: 908.1, 918.1, 918.2, 1101.2, 1101.6, 1501.3	
Section Title: General, Forced Air Furnaces, Heat Pumps, Factory-Built Equipment & Appliances, General, Referenced Standards	

AMENDMENT:

Type proposed amendment in rule change form. (Using strikeout on portions being removed and underline on all new wording.)

1. Include the entire section you wish to amend.
2. Attach additional sheets if necessary.

Please see attached showing the amended language in rule change form.

Purpose of or Reason for the amendment: UL 1995 will be sunsetted effective 1/1/2024. UL 1995 standard is being replaced by UL/CSA 60335-2-40 standard for most products and the latest edition of this standard is the 3rd Edition – 2019. Adding the reference to UL/CSA 60335-2-40 along with UL 1995 allows manufacturers to start certifying product to this standard and avoiding conflicts with AHJs in the State of Utah. Please see attached for more information.
Cost or Savings Impact of Amendment: The amendment will not affect the cost of construction.
Compliance Costs for Affected Persons (APerson@ means any individual, partnership, corporation, association, governmental entity, or public or private organization of any character other than an agency.) (You must break out the impact cost to State Budget, Local Government and you must state aggregate cost to other persons {cost per person times number of persons affected}): The amendment does not affect compliance costs.

Signature: Andrew S. Klein	Date: 6/17/2020

For Division Use:

Date Received:	
Committee Action: ☒ Approved ☐ Denied ☐ Approved with revisions ☐ Referred to: ☐ Tabled	**UBC Commission Decision for Hearing:** ☐ Approved for hearing ☐ Denied ☐ Approved with revisions ☐ Referred to: ☐ Tabled
Date Filed:	Public Hearing Date:
UBC Commission Decision for Adoption: ☐ Approved ☐ Denied ☐ Approved with revisions ☐ Referred to: ☐ Tabled	Effective Date:

Revisions to the 2018 International Mechanical Code

Section 908 Cooling Towers, Evaporative Condensers and Fluid Coolers

908.1 General

A cooling tower used in conjunction with an air-conditioning appliance shall be installed in accordance with the manufacturer's instructions. Factory-built cooling towers shall be listed in accordance with UL 1995 or UL/CSA 60335-2-40.

Section 918 Forced-Air Warm-Air Furnaces

918.1 Forced-Air furnaces

Oil-fired furnaces shall be tested in accordance with UL 727. Electric furnaces shall be tested in accordance with UL 1995 or UL/CSA 60335-2-40. Solid fuel furnaces shall be tested in accordance with UL 391. Forced-air furnaces shall be installed in accordance with the listings and the manufacturer's instructions.

918.2 Heat Pumps

Electric heat pumps shall be tested in accordance with UL 1995 or UL/CSA 60335-2-40.

Section 1101 General

1101.2 Factory-Built Equipment and Appliances

Listed and labeled self-contained, factory-built equipment and appliances shall be tested in accordance with UL 207, 412, 471, ~~or~~ 1995 or UL/CSA 60335-2-40. Such equipment and appliances are deemed to meet the design, manufacture and factory test requirements of this code if installed in accordance with their listing and the manufacturer's instructions.

1101.6 General. Refrigeration systems shall comply with the requirements of this code and, except as modified by this code, ASHRAE 15. Ammonia-refrigerating systems shall comply with this code and, except as modified by this code, ASHRAE 15, IIAR 2. High probability systems utilizing A2L refrigerants shall comply with ASHRAE 15.

Chapter 15 REFERENCED STANDARDS

1501.3 Referenced Standards

ASHRAE

ASHRAE
1791 Tullie Circle, NE
Atlanta, GA 30329

Standard reference number	Title
15—~~2013~~ 2019	Safety Standard for Refrigeration Systems
34—~~2013~~ 2019	Designation and Safety Classification of Refrigerants

CSA

CSA Group
8501 East Pleasant Valley Road
Cleveland, OH 44131-5516

Standard reference number	Title
CSA C22.2 No. 60335-2-40-2019	Household And Similar Electrical Appliances - Safety - Part 2-40: Particular Requirements for Electrical Heat Pumps, Air-Conditioners and Dehumidifiers – 3rd Edition

UL

UL LLC
333 Pfingsten Road
Northbrook, IL 60062-2096

Standard reference number	Title

60335-2-40-2019

Household And Similar Electrical Appliances - Safety - Part 2-40: Particular Requirements for Electrical Heat Pumps, Air-Conditioners and Dehumidifiers – 3rd Edition

Rationale: UL 1995 will be sunsetted effective 1/1/2024. UL 1995 standard is being replaced by UL/CSA 60335-2-40 standard for most air conditioning products and the latest edition of this standard is the 3rd Edition – 2019. Adding the reference to UL/CSA 60335-2-40 along with UL 1995 allows manufacturers to start certifying product to this standard and avoiding conflicts with AHJs in the State of Utah. The Residential Code of Utah already includes equivalent references to UL/CSA 60335-2-40 for UL 1995, and this should be done in the Utah Mechanical Code also.

Please see the attached notification from UL concerning this transition from UL 1995 to UL/CSA 60335-2-40. The 2021 ICC International Mechanical Code will include a reference to UL/CSA 60335-2-40 in the sections identified. This was accomplished by a code change submitted by UL during the 2018 ICC Code Change Cycle.

This proposal is to update these referenced standards to the 2019 editions. This would allow for products approved to the latest version of the newest UL Standard to be included. Many manufacturers will be transitioning away from UL 1995 to UL 60335-2-40 for new products over the next few years, because UL 1995 be obsoleted effective 1/1/2024. The newest 3rd edition of UL 60335-2-40, published November 2019, has many new requirements for electrical and refrigerant safety. The 3rd edition includes requirements for UV-C germicidal lamp systems, CO_2 systems, photovoltaic systems, new marking requirements, water ingress rating system as well as allowances for Low Global Warming Potential (GWP) Group A2L refrigerants. ASHRAE 34-2019 includes many new Low GWP refrigerants that do not appear in previous editions of the standard. It should be noted that the 2021 ICC International Mechanical Code references the 2019 edition of ASHRAE 15 and ASHRAE 34.

With the change to Low GWP Refrigerants, the Mechanical Code needs to be updated to address the use of Group A2L refrigerants in high probability (direct) systems. All of the commonly used Low GWP replacement refrigerants for direct systems fall into the category of Group A2L in the 2019 edition of ASHRAE 34. ASHRAE 15-2019 has added specific requirements for the use of Group A2L refrigerants. New safety requirements in ASHRAE 15 address the concerns regarding the use of a lower flammability refrigerant. There are provisions for listing of equipment, installation of refrigerant detectors, and ventilation to mitigate any leak of refrigerant. By referencing ASHRAE 15 directly, the requirements become an enforceable part of the code. ASHRAE 15 requires an A2L appliance or equipment to be listed. The standard for listing to Group A2L appliances is UL/CSA 60335-2-40-2019.

Chapter 3
Statewide Amendments Incorporated as Part of State Construction Code

Part 1
Statewide Amendments to International Building Code

15A-3-101 General provision.

The amendments in this part are adopted as amendments to the IBC to be applicable statewide.

Enacted by Chapter 14, 2011 General Session

15A-3-102 Amendments to Chapters 1 through 3 of IBC.

(1)IBC, Section 106, is deleted.

(2) In IBC, Section 107.3.1, the words "by the building code official" are added after the word "approved".

(3) In IBC Section, 107.3.4, the following exception is added:
"Exception: Fire sprinkler system layout and fire alarm system layout"
(remaining numbers are renumbered as needed)

(2) In IBC, Section 110, a new section is added as follows: " 110.3.5.1, Weather-resistant exterior wall envelope. An inspection shall be made of the weather-resistant exterior wall envelope as required by Section 1404.2, and flashing as required by Section 1404.4 to prevent water from entering the weather-resistive barrier."

(3) IBC, Section 115.1, is deleted and replaced with the following: "115.1 Authority. Whenever the building official finds any work regulated by this code being performed in a manner either contrary to the provisions of this code or other pertinent laws or ordinances or is dangerous or unsafe, the building official is authorized to stop work."

(4) In IBC, Section 202, the following definition is added for Ambulatory Surgical Center: "AMBULATORY SURGICAL CENTER. A building or portion of a building licensed by the Utah Department of Health where procedures are performed that may render patients incapable of self preservation where care is less than 24 hours. See Utah Administrative Code R432-13."

(5) In IBC, Section 202, the following definition is added for Assisted Living Facility: "ASSISTED LIVING FACILITY. See Residential Treatment/Support Assisted Living Facility, Type I Assisted Living Facility, and Type II Assisted Living Facility."

(6) In IBC, Section 202, the definition for Foster Care Facilities is modified by deleting the word "Foster" and replacing it with the word "Child."

(7) In IBC, Section 202, the definition for "[F] Record Drawings" is modified by deleting the words "a fire alarm system" and replacing them with "any fire protection system."

(8) In IBC, Section 202, the following definition is added for Residential Treatment/Support Assisted Living Facility: "RESIDENTIAL TREATMENT/SUPPORT ASSISTED LIVING FACILITY. A residential facility that provides a group living environment for four or more residents licensed by the Department of Human Services, and provides a protected living arrangement for ambulatory, non-restrained persons who are capable of achieving mobility sufficient to exit the facility without the physical assistance of another person."

(9) In IBC, Section 202, the following definition is added for Type I Assisted Living Facility: "TYPEI ASSISTED LIVING FACILITY. A residential facility licensed by the Department of Health that provides a protected living arrangement, assistance with activities of daily living

and social care to two or more ambulatory, non-restrained persons who are capable of mobility sufficient to exit the facility without the assistance of another person. Subcategories are:
Limited Capacity: two to five residents;
Small: six to sixteen residents; and
Large: over sixteen residents."

(10) In IBC, Section 202, the following definition is added for Type II Assisted Living Facility: "TYPEII ASSISTED LIVING FACILITY. A residential facility licensed by the Department of Health that provides an array of coordinated supportive personal and health care services to two or more residents who are:
A. Physically disabled but able to direct his or her own care; or
B. Cognitively impaired or physically disabled but able to evacuate from the facility, or toa zone or area of safety, with the physical assistance of one person. Subcategories are:
Limited Capacity: two to five residents;
Small: six to sixteen residents; and
Large: over sixteen residents."

(11) In IBC, Section 305.2, the following changes are made:
(a) delete the words "more than five children older than 2 1/2 years of age" and replace with the words "five or more children 2 years of age or older";
(b) after the word "supervision" insert the words "child care services"; and
(c) add the following sentence at the end of the paragraph: "See Section 429, Day Care, for special requirements for day care."

(12) In IBC, Section 305.2.2 and 305.2.3, the word "five" is deleted and replaced with the word "four" in all places.

(13) A new IBC Section 305.2.4 is added as follows: "305.2.4 Child day care -- residential childcare certificate or a license. Areas used for child day care purposes with a residential child care certificate, as described in Utah Administrative Code, R430-50, Residential Certificate Child Care, or a residential child care license, as described in Utah Administrative Code, R430-90, Licensed Family Child Care, may be located in a Group R-2 or R-3 occupancy as provided in Sections 310.3 and 310.4 comply with the International Residential Code in accordance with Section R101.2."

(14) A new IBC Section 305.2.5 is added as follows: "305.2.5 Child care centers. Each of the following areas may be classified as accessory occupancies, if the area complies with Section 508.2:
1. Hourly child care centers, as described in Utah Administrative Code, R381-60, Hourly Child Care Centers;
2. Child care centers, as described in Utah Administrative Code, R381-100, Child Care Centers; and
3. Out-of-school-time programs, as described in Utah Administrative Code, R381-70, Out of School Time Child Care Programs."

(15) In IBC, Table 307.1(1), footnote "d" is added to the row for Explosives, Division 1.4G in the column titled STORAGE - Solid Pounds (cubic feet).

(16) In IBC, Section 308.2, in the list of items under "This group shall include," the words "Type-I Large and Type-II Small, see Section 308.2.5" are added after "Assisted living facilities."

(17) In IBC, Section 308.2.4, all of the words after the first International Residential Code are deleted.

(18) A new IBC, Section 308.2.5 is added as follows:

"308.2.5 Group I-1 assisted living facility occupancy groups. The following occupancy groups shall apply to assisted living facilities:

Type I assisted living facilities with seventeen or more residents are Large Facilities classified as an Institutional Group I-1, Condition 1 occupancy.

Type II assisted living facilities with six to sixteen residents are Small Facilities classified as an Institutional Group I-1, Condition 2 occupancy. See Section 202 for definitions."

(19) In IBC, Section 308.3 Institutional Group I-2, the following changes are made:

(a) The words "more than five" are deleted and replaced with "four or more";

(b) The group "Assisted living facilities, Type-II Large" is added to the list of groups;

(c) The words "Foster care facilities" are deleted and replaced with the words "Child care facilities"; and

(d) The words "(both intermediate care facilities and skilled nursing facilities)" are added after "Nursing homes."

(20) In IBC, Section 308.3.2, the number "five" is deleted and replaced with the number "four" in each location.

(21) A new IBC, Section 308.3.3 is added as follows:

"308.3.3 Group I-2 assisted living facilities. Type II assisted living facilities with seventeen or more residents are Large Facilities classified as an Institutional Group I-2, Condition 1 occupancy. See Section 202 for definitions."

(22) In IBC, Section 308.5, the words "more than five" are deleted and replaced with the words "five or more."

(23) In IBC, Section 308.5.1, the following changes are made:

(a) The words "more than five" are deleted and replaced with the words "five or more."

(b) The words "2-1/2 years or less of age" are deleted and replaced with "under the age of two."(c) The following sentence is added at the end: "See Section 429 for special requirements for Day Care."

(24) In IBC, Sections 308.5.3 and 308.5.4, the words "five or fewer" are deleted and replaced with the words "four or fewer" in both places and the following sentence is added at the end: "See Section 429 for special requirements for Day Care." (25) In IBC, Section 310.4, the following changes are made:

(a) The words "and single family dwellings complying with the IRC" are added after "ResidentialGroup-3 occupancies."

(b) The words "Assisted Living Facilities, limited capacity" are added to the list of occupancies.

(26) In IBC, Section 310.4.1, the following changes are made:

(a) The words "other than Child Care" are inserted after the words "Care facilities" in the first sentence.

(b) All of the words after the first "International Residential Code" are deleted.

(c) The following sentence is added at the end of the last sentence: "See Section 429 for special requirements for Child Day Care."

(27) A new IBC Section 310.4.3 is added as follows: " 310.4.3 Child Care. Areas used for childcare purposes may be located in a residential dwelling unit under all of the following conditions and Section 429:
1. Compliance with Utah Administrative Code, R710-8, Day Care Rules, as enacted under the authority of the Utah Fire Prevention Board.
2. Use is approved by the Utah Department of Health, as enacted under the authority of the Utah Code, Title 26, Chapter 39, Utah Child Care Licensing Act, and in any of the following categories:
a. Utah Administrative Code, R430-50, Residential Certificate Child Care.
b. Utah Administrative Code, R430-90, Licensed Family Child Care.
3. Compliance with all zoning regulations of the local regulator."

(28) A new IBC, Section 310.4.4 is added as follows: "310.4.4 Assisted living facilities. Type I assisted living facilities with two to five residents are Limited Capacity facilities classified as a Residential Group R-3 occupancy or are permitted to comply with the International Residential Code. See Section 202 for definitions."

(29) In IBC, Section 310.5, the words "Type II Limited Capacity and Type I Small, see Section 310.5.3" are added after the words "assisted living facilities."

(30) A new IBC, Section 310.5.3, is added as follows: "310.5.3 Group R-4 Assisted living facility occupancy groups. The following occupancy groups shall apply to Assisted Living Facilities: Type II Assisted Living Facilities with two to five residents are Limited Capacity Facilities classified as a Residential Group R-4, Condition 2 occupancy. Type I assisted living facilities with six to sixteen residents are Small Facilities classified as Residential Group R-4, Condition 1 occupancies. See Section 202 for definitions."

Amended by Chapter 20, 2019 General Session

15A-3-103 Amendments to Chapters 4 through 6 of IBC.

(1)IBC Section 403.5.5 is deleted.

(2) In IBC, Section 407.2.5, the words "and assisted living facility" are added in the title and first sentence after the words "nursing home."

(3) In IBC, Section 407.2.6, the words "and assisted living facility" are added in the title after the words "nursing home."

(4) In IBC, Section 407.11, a new exception is added as follows: "Exception: An essential electrical system is not required in assisted living facilities."

(5) In IBC, Section 412.3.1, a new exception is added as follows: "Exception: Aircraft hangars of Type I or II construction that are less than 5,000 square feet (464.5m2) in area."

(6) A new IBC, Section 422.2.1 is added as follows: " 422.2.1 Separations: Ambulatory care facilities licensed by the Department of Health shall be separated from adjacent tenants with a fire partition having a minimum one hour fire-resistance rating. Any level below the level of exit discharge shall be separated from the level of exit discharge by a horizontal assembly having a minimum one hour fire-resistance rating.
Exception: A fire barrier is not required to separate the level of exit discharge when:
1. Such levels are under the control of the Ambulatory Care Facility.
2. Any hazardous spaces are separated by horizontal assembly having a minimum one hour fire-resistance rating."

(7) A new IBC Section 429, Day Care, is added as follows:

" 429.1 Detailed Requirements. In addition to the occupancy and construction requirements in this code, the additional provisions of this section shall apply to all Day Care in accordance with Utah Administrative Code R710-8 Day Care Rules.

429.2 Definitions.

429.2.1 Authority Having Jurisdiction (AHJ): State Fire Marshal, his duly authorized deputies, or the local fire enforcement authority code official.

429.2.2 Day Care Facility: Any building or structure occupied by clients of any age who receive custodial care for less than 24 hours by individuals other than parents, guardians, relatives by blood, marriage or adoption.

429.2.3 Day Care Center: Providing care for five or more clients in a place other than the home of the person cared for. This would also include Child Care Centers, Out of School Time or Hourly Child Care Centers licensed by the Department of Health.

429.2.4 Family Day Care: Providing care for clients listed in the following two groups:

429.2.4.1 Type 1: Services provided for five to eight clients in a home. This would also include a home that is certified by the Department of Health as Residential Certificate Child Care or licensed as Family Child Care.

429.2.4.2 Type 2: Services provided for nine to sixteen clients in a home with sufficient staffing. This would also include a home that is licensed by the Department of Health as Family Child Care.

429.2.5 R710-8: Utah Administrative Code, R710-8, Day Care Rules, as enacted under the authority of the Utah Fire Prevention Board.

429.3 Family Day Care.

429.3.1 Family Day Care units shall have on each floor occupied by clients, two separate means of egress, arranged so that if one is blocked the other will be available.

429.3.2 Family Day Care units that are located in the basement or on the second story shall be provided with two means of egress, one of which shall discharge directly to the outside. 429.3.2.1 Residential Certificate Child Care and Licensed Family Child Care with five to eight clients in a home, located on the ground level or in a basement, may use an emergency escape or rescue window as allowed in IFC, Chapter 10, Section 1030.

429.3.3 Family Day Care units shall not be located above the second story.

429.3.4 In Family Day Care units, clients under the age of two shall not be located above or below the first story.

429.3.4.1 Clients under the age of two may be housed above or below the first story where there is at least one exit that leads directly to the outside and complies with IFC, Section 1011 or Section 1012 or Section 1027.

429.3.5 Family Day Care units located in split entry/split level type homes in which stairs to the lower level and upper level are equal or nearly equal, may have clients housed on both levels when approved by the AHJ.

429.3.6 Family Day Care units shall have a portable fire extinguisher on each level occupied by clients, which shall have a classification of not less than 2A:10BC, and shall be serviced in accordance with NFPA, Standard 10, Standard for Portable Fire Extinguishers.

429.3.7 Family Day Care units shall have single station smoke detectors in good operating condition on each level occupied by clients. Battery operated smoke detectors shall

be permitted if the facility demonstrates testing, maintenance, and battery replacement to insure continued operation of the smoke detectors.

429.3.8 Rooms in Family Day Care units that are provided for clients to sleep or nap, shall have at least one window or door approved for emergency escape.

429.3.9 Fire drills shall be conducted in Family Day Care units quarterly and shall include the complete evacuation from the building of all clients and staff. At least annually, in Type I Family Day Care units, the fire drill shall include the actual evacuation using the escape or rescue window, if one is used as a substitute for one of the required means of egress.

429.4 Day Care Centers.

429.4.1 Day Care Centers shall comply with either I-4 requirements or E requirements of the IBC, whichever is applicable for the type of Day Care Center.

429.4.2 Emergency Evacuation Drills shall be completed as required in IFC, Chapter 4, Section 405.

429.4.3 Location at grade. Group E child day care centers shall be located at the level of exit discharge.

429.4.3.1 Child day care spaces for children over the age of 24 months may be located on the second floor of buildings equipped with automatic fire protection throughout and an automatic fire alarm system.

429.4.3.2 Egress. All Group E child day care spaces with an occupant load of more than 10 shall have a second means of egress. If the second means of egress is not an exit door leading directly to the exterior, the room shall have an emergency escape and rescue window complying with Section 1030.

429.4.4 All Group E Child Day Care Centers shall comply with Utah Administrative Code,R430-100 Child Care Centers, R430-60 Hourly Child Care Centers, and R430-70 Out of School Time.

429.5 Requirements for all Day Care.

429.5.1 Heating equipment in spaces occupied by children shall be provided with partitions, screens, or other means to protect children from hot surfaces and open flames.

429.5.2 A fire escape plan shall be completed and posted in a conspicuous place. All staff shall be trained on the fire escape plan and procedure."

(8) In IBC, Section 504.4, a new section is added as follows: "504.4.1 Group I-2 Assisted Living Facilities. Notwithstanding the allowable number of stories permitted by Table 504.4 Group I-2 Assisted Living Facilities of type VA, construction shall be allowed on each level of a two-story building when all of the following apply:

1. The total combined area of both stories does not exceed the total allowable area for a one story, above grade plane building equipped throughout with an automatic sprinkler system installed in accordance with Section 903.3.1.1.
2. All other provisions that apply in Section 407 have been provided."

(9) A new IBC, Section 504.5, is added as follows: "504.5 Group 1-2 Secured areas in Assisted Living Facilities. In Type IIIB, IV, and V construction, all areas for the use and care of residents required to be secured shall be located on the level of exit discharge with door operations in compliance with Section 1010.1.9.7, as amended."

Amended by Chapter 243, 2020 General Session
Amended by Chapter 441, 2020 General Session

15A-3-104 Amendments to Chapters 7 through 9 of IBC.

(1) In IBC, Section 704.13.2, the following sentence is added to the end of the section: "An individual spraying fire-resistant materials may obtain a certificate that demonstrates that the individual has undergone training on how to spray fire-resistant materials to manufacturer's specifications."

(2) IBC, Section (F) 902.1, is deleted and replaced with the following: "(F) 902.1 Pump and riser room size. Fire pump and automatic sprinkler system riser rooms shall be designed with adequate space for all installed equipment necessary for the installation and to provide sufficient working space around the stationary equipment. Clearances around equipment shall be in accordance with manufacturer requirements and not less than the following minimum elements:

902.1.5 A minimum clear and unobstructed distance of 12-inches shall be provided from the installed equipment to the elements of permanent construction.

902.1.6 A minimum clear and unobstructed distance of 12-inches shall be provided between all other installed equipment and appliances.

902.1.7 A clear and unobstructed width of 36-inches shall be provided in front of all installed equipment and appliances, to allow for inspection, service, repair or replacement without removing such elements of permanent construction or disabling the function of a required fire resistance-rated assembly.

902.1.8 Automatic sprinkler system riser rooms shall be provided with a clear and unobstructed passageway to the riser room of not less than 36-inches, and openings into the room shall be clear and unobstructed, with doors swinging in the outward direction from the room and the opening providing a clear width of not less than 34-inches and a clear height of the door opening shall not be less than 80-inches.

902.1.9 Fire pump rooms shall be provided with a clear and unobstructed passageway to the fire pump room of not less than 72-inches, and openings into the room shall be clear, unobstructed and large enough to allow for the removal of the largest piece of equipment, with doors swinging in the outward direction from the room and the opening providing a clear width of not less than 68-inches and a clear height of the door opening shall not be less than 80inches."

(3) In IBC, Section (F)903.2.2, the words "the entire floor" are deleted and replaced with "a building" and the last paragraph is deleted.

(4) IBC, Section (F)903.2.4, condition 2, is deleted and replaced with the following: "2. A Group F-1 fire area is located more than three stories above the lowest level of fire department vehicle access."

(5) IBC, Section (F)903.2.7, condition 2, is deleted and replaced with the following: "2. A Group M fire area is located more than three stories above the lowest level of fire department vehicle access."

(6) IBC, Sections (F)903.2.8, (F)903.2.8.1, and (F)903.2.8.2, are deleted and replaced with the following: "(F)903.2.8 Group R. An automatic sprinkler system installed in accordance with Section 903.3 shall be provided throughout all buildings with a Group R fire area.

Exceptions:

1. Detached one- and two-family dwellings and multiple single-family dwellings (townhouses) constructed in accordance with the International Residential Code For One- and Two-Family Dwellings.

2. Single story Group R-1 occupancies with fire areas not more than 2,000 square feet that contain no installed plumbing or heating, where no cooking occurs, and constructed of Type IA, I-B, II-A, or II-B construction."

(7) IBC, Section (F)903.2.8.3 is renumbered to (F)903.2.8.1 and the following exception is added: "Exception: Group R-4 fire areas not more than 4,500 gross square feet and not containing more than 16 residents, provided the building is equipped throughout with an approved fire alarm system that is interconnected and receives its primary power from the building wiring and a commercial power system."

(8)IBC, Section (F)903.2.8.4, is deleted.

(9)IBC, Section (F)903.2.9, condition 2, is deleted and replaced with the following: "2. A Group S-1 fire area is located more than three stories above the lowest level of fire department vehicle access."

(10)IBC, Section (F)904.12, is deleted and replaced with the following: "(F)904.12 Commercial cooking systems. The automatic fire-extinguishing system for commercial cooking systems shall be of a type recognized for protection of commercial cooking equipment and exhaust systems. Pre-engineered automatic extinguishing systems shall be tested in accordance with UL 300 and listed and labeled for the intended application. The system shall be installed in accordance with this code, its listing and the manufacturer's installation instructions. Exception: Factory-built commercial cooking recirculating systems that are tested in accordance with UL 710B and listed, labeled, and installed in accordance with Section 304.1 of the International Mechanical Code."

(11) IBC, Sections (F)904.12.3, (F)904.12.3.1, (F)904.12.4, and (F)904.12.4.1, are deleted.

(12) In IBC, Section 905, a new subsection, Section (F)905.3.9, is added as follows: "Open Parking Garages. Open parking garages shall be equipped with an approved Class 1 manual standpipe system when fire department access is not provided for firefighting operations to within 150 feet of all portions of the open parking garage as measured from the approved fire department vehicle access. Class 1 manual standpipe shall be accessible throughout the parking garage such that all portions of the parking structure are protected within 150 feet of a hose connection."

(13) In IBC, Section (F)905.8, the exception is deleted and replaced with the following: "Exception: Where subject to freezing and approved by the fire code official."

(14) In IBC, Section (F)907.2.3 Group E is deleted and rewritten as follows: "A manual fire alarm system that initiates the occupant notification signal using an emergency voice/alarm communication system that meets the requirements of Section (F) 907.5.2.2, or a manual fire alarm system that initiates an approved audible and visual occupant notification signal that meets the requirements of Sections (F)907.5.2.1, (F)907.5.2.1.1, (F)907.5.2.2, and (F)907.5.2.3, and is installed in accordance with Section (F)907.6 shall be installed in Group E occupancies. Where automatic sprinkler systems or detectors are installed, the systems or detectors shall be connected to the building fire alarm system."

(15) IBC, Sections (F)915 through (F)915.6, are deleted and replaced with the following: "(F) 915 Where required.

Group I-1, I-2, I-4, and R occupancies located in a building containing a fuel-burning appliance or in a building that has an attached garage shall be equipped with single-station carbon monoxide alarms. The carbon monoxide alarms shall be listed as complying with UL 2034 or UL 2075 and be installed and maintained in accordance with NFPA 720 and the manufacturer's instructions. An open parking garage, as defined in Chapter 2, or an enclosed parking garage, ventilated in accordance with Section 404 of the International Mechanical Code, shall not be considered an attached garage. A minimum of one carbon monoxide alarm shall be installed on each habitable level.

(F) 915.1 Interconnection.

Where more than one carbon monoxide alarm is required to be installed within Group I-1, I-2, I-4, or R occupancies, the carbon monoxide alarm shall be interconnected in such a manner that the activation of one alarm will activate all of the alarms. Physical interconnection of carbon monoxide alarms shall not be required where listed wireless alarms are installed and all alarms sound upon activation of one alarm. The alarm shall be clearly audible in all bedrooms over background noise levels with all intervening doors closed.

(F) 915.2 Power source.

In new construction, required carbon monoxide alarms shall receive their primary power from the building wiring where such wiring is served from a commercial source and shall be equipped with a battery backup. Carbon monoxide alarms with integral strobes that are not equipped with a battery backup shall be connected to an emergency electrical system. Carbon monoxide alarms shall emit a signal when the batteries are low. Wiring shall be permanent and without a disconnecting switch other than as required for overcurrent protection.

Exceptions.

1. Carbon monoxide alarms are not required to be equipped with a battery backup where they are connected to an emergency electrical system.
2. Hard wiring of carbon monoxide alarms in existing areas shall not be required where the alterations or repairs do not result in the removal of interior wall or ceiling finishes exposing the structure, unless there is an attic, crawl space, or basement available that could provide access for hard wiring without the removal of interior finishes.

(F) 915.3 Group E.

A carbon monoxide detection system shall be installed in new buildings that contain Group E occupancies in accordance with IFC, Chapter 9, Section 915. A carbon monoxide detection system shall be installed in existing buildings that contain Group E occupancies in accordance with IFC, Chapter 11, Section 1103.9.

(F) 915.3.1 Where required.

In Group E occupancies, a carbon monoxide detection system shall be provided where a fuel burning appliance, a fuel-burning fireplace, or a fuel-burning forced air furnace is present.

(F) 915.3.2 Detection equipment.

Each carbon monoxide detection system shall be installed in accordance with NFPA 720 and the manufacturer's instructions and be listed as complying with, for single station detectors, UL 2034 and, for system detectors, UL 2075.

(F) 915.3.3 Locations.

Each carbon monoxide detection system shall be installed in the locations specified in NFPA 720.

(F) 915.3.4 Combination detectors.

A combination carbon monoxide/smoke detector is an acceptable alternative to a carbon monoxide detection system if the combination carbon monoxide/smoke detector is listed in accordance with UL 2075 and UL 268.

(F) 915.3.5 Power source.

Each carbon monoxide detection system shall receive primary power from the building wiring if the wiring is served from a commercial source. If primary power is interrupted, each carbon monoxide detection system shall receive power from a battery. Wiring shall be permanent and without a disconnecting switch other than that required for overcurrent protection.

(F) 915.3.6 Maintenance.

Each carbon monoxide detection system shall be maintained in accordance with NFPA 720. A carbon monoxide detection system that becomes inoperable or begins to produce end of life signals shall be replaced."

Amended by Chapter 20, 2019 General Session

15A-3-105 Amendments to Chapters 10 through 12 of IBC.

(1) In IBC, Section 1010.1.9, an exception is added as follows: "Exception: Group E occupancies for purposes of a lockdown or a lockdown drill in accordance with Section 1010.1.9.5 Exception 5."

(2) In IBC, Section 1010.1.9.2, "Exception:" is deleted and replaced with "Exceptions: 1."

(3) In IBC, Section 1010.1.9.2, a new exception 2 is added as follows: "2. Group E occupancies for purposes of a lockdown or a lockdown drill may have one lock below 34 inches in accordance with Section 1010.1.9.5 Exception 5."

(4) In IBC, Section 1010.1.9.4, a new number 7 is added as follows: " 7. Group E occupancies for purposes of a lockdown or a lockdown drill in accordance with Section 1010.1.9.5 Exception 5."

(5) In IBC, Section 1010.1.9.5, a new exception 6 is added as follows: "6. Group E occupancies for purposes of a lockdown or a lockdown drill in accordance with Section 1010.1.9.5 Exception 5."

(6) In IBC, Section 1010.1.9.6, a new exception 5 is added as follows: "5. Group E occupancies may have a second lock on classrooms for purposes of a lockdown or lockdown drill, if:
5.1 The application of the lock is approved by the code official.
5.2 The unlatching of any door or leaf does not require more than two operations.
5.3 The lock can be released from the opposite side of the door on which it is installed.
5.4 The lock is only applied during lockdown or during a lockdown drill.
5.5 The lock complies with all other state and federal regulations, including the Americans with Disabilities Act of 1990, 42 U.S.C. Sec. 12101 et seq."

(7) In IBC, Section 1010.1.9.7, a new number 9 is added as follows: " 9. The secure area or unit with special egress locks shall be located at the level of exit discharge in Type IIIB, IV, and V construction."

(8) In IBC, Section 1011.5.2, exception 3 is deleted and replaced with the following: " 3. In GroupR-3 occupancies, within dwelling units in Group R-2 occupancies, and in Group U occupancies that are accessory to a Group R-3 occupancy, or accessory to individual dwelling units in Group R-2 occupancies, the maximum riser height shall be 8 inches (203 mm) and the minimum tread depth shall be 9 inches (229 mm). The minimum winder tread depth at the walk line shall be 10 inches (254 mm), and the minimum winder tread depth shall be 6 inches (152 mm). A nosing not less than 0.75 inch (19.1 mm) but not more than 1.25 inches (32 mm) shall be provided on stairways with solid risers where the tread depth is less than 10 inches (254 mm)."

(9) In IBC, Section 1011.11, a new exception 5 is added as follows: " 5. In occupancies in GroupR-3, as applicable in Section 101.2 and in occupancies in Group U, which are accessory to an occupancy in Group R-3, as applicable in Section 101.2, handrails shall be provided on at least one side of stairways consisting of four or more risers."

(10) In IBC, Section 1013.5, the words ", including when the building may not be fully occupied" are added at the end of the sentence.

(11) IBC, Section 1025, is deleted.

(12) In IBC, Section 1029.15, exception 2 is deleted.

(13) In IBC, Section 1207.4, subparagraph 1 is deleted and replaced with the following: "1. The unit shall have a living room of not less than 165 square feet (15.3 m2) of floor area. An additional 100 square feet (9.3 m2) of floor area shall be provided for each occupant of such unit in excess of two."

Amended by Chapter 20, 2019 General Session

15A-3-106 Amendments to Chapters 13 through 15 of IBC.

IBC, Chapters 13, 14, and 15 are not amended. Amended by

Chapter 249, 2016 General Session

15A-3-107 Amendments to Chapter 16 of IBC.

(1) In IBC, Table 1604.5, Risk Category III, in the sentence that begins "Group I-2 Condition 1," anew footnote c is added as follows: "c. Type II Assisted Living Facilities that are I-2 Condition 1 occupancy classifications in accordance with Section 308 shall be Risk Category II in this table."

(2) In IBC, Section 1605.2, in the portion of the definition for the value of f2, the words "and 0.2 for other roof configurations" are deleted and replaced with the following: "f2 = 0.20 + .025(A-5) for other configurations where roof snow load exceeds 30 psf; f2 = 0 for roof snow loads of 30 psf (1.44kN/m2) or less.

Where A = Elevation above sea level at the location of the structure (ft./1,000)."

(3) In IBC, Sections 1605.3.1 and 1605.3.2, exception 2 in each section is deleted and replaced with the following: "2. Flat roof snow loads of 30 pounds per square foot (1.44 kNm2) or less need not be combined with seismic loads. Where flat roof snow loads exceed 30 pounds per square foot (1.44 kNm2), the snow loads may be reduced in accordance with the following in load combinations including both snow and seismic loads. S as calculated below, shall be combined with seismic loads.

S = (0.20 + 0.025(A-5))Pf is greater than or equal to 0.20 Pf.

Where:

S = Weight of snow to be used in combination with seismic loads

A = Elevation above sea level at the location of the structure (ft./1,000)

Pf = Design roof snow load, psf.

For the purpose of this section, snow load shall be assumed uniform on the roof footprint without including the effects of drift or sliding. The Importance Factor, I, used in calculating Pf may be considered 1.0 for use in the formula for Ws".

(4) IBC, Section 1608.1, is deleted and replaced with the following: "1608.1 General. Except as modified in Sections 1608.1.1, 1608.1.2, and 1608.1.3, design snow loads shall be determined in accordance with Chapter 7 of ASCE 7, but the design roof load shall not be less than that determined by Section 1607. Where the minimum live load, in accordance with Section 1607, is greater than the design roof snow load, pf, the live load shall be used for design, but it may not be reduced to a load lower than the design roof snow load. Drifting need not be considered for roof snow loads, pf, less than 20 psf."

(5) A new IBC, Section 1608.1.1, is added as follows: "1608.1.1 Ice dams and icicles along eaves. Section 7.4.5 of Chapter 7 of ASCE 7 referenced in IBC Section 1608.1 is deleted and replaced with the following: 7.4.5 Ice Dams and Icicles Along Eaves. Where ground snow

loads exceed 75 psf, eaves shall be capable of sustaining a uniformly distributed load of 2pf on all overhanging portions. No other loads except dead loads shall be present on the roof when this uniformly distributed load is applied. All building exits under down-slope eaves shall be protected from sliding snow and ice."

(6) A new IBC, Section 1608.1.2, is added as follows: "1608.1.2 Thermal factor. The value for the thermal factor, Ct, used in calculation of pf shall be determined from Table 7.3-2 in ASCE 7. Exception: Except for unheated structures, the value of Ct need not exceed 1.0 when ground snow load, pg, is calculated using Section 1608.2.1."

(7) A new IBC, Section 1608.1.3 is added as follows: "1608.1.3 Drifts on adjacent structures. Section 7.7.2 of ASCE 7 referenced in IBC, Section 1608.1, is deleted and replaced with the following: 7.7.2 Adjacent structures. At lower adjacent structures, the requirements of Section 7.7.1 shall be used to calculate windward and leeward drifts. The resulting drift is permitted to be truncated."

(8) A new IBC, Section 1608.2.1 is added as follows: "1608.2.1 Utah ground snow loads. Section 7.2 of ASCE 7 referenced in IBC, Section 1608.1 is modified as follows:

(a) In paragraph 1, 7.2-8 is deleted and replaced with 7.2-9.

(b) On Figure 7.2-1, remove CS and other ground snow load values in the state of Utah. Add red shaded region for the state of Utah with the following note: See note for Utah.

(c) The following is added to the Note on Figure 7.2.1: See Table 7.2-9 for Utah.

(d) Add Table 7-2.9 as follows:

TABLE 7.2-9

GROUND SNOW LOADS FOR SELECTED LOCATIONS IN UTAH

City/Town	County	Ground Snow Load (lb/ft2)	Elevation (ft)
Beaver	Beaver	35	5886
Brigham City	Box Elder	42	4423
Castle Dale	Emery	32	5669
Coalville	Summit	57	5581
Duchesne	Duchesne	39	5508
Farmington	Davis	35	4318
Fillmore	Millard	30	5138
Heber City	Wasatch	60	5604
Junction	Piute	27	6030
Kanab	Kane	25	4964
Loa	Wayne	37	7060
Logan	Cache	43	4531
Manila	Daggett	26	6368
Manti	Sanpete	37	5620

Moab	Grand	21	4029
Monticello	San Juan	67	7064
Morgan	Morgan	52	5062
Nephi	Juab	39	5131
Ogden	Weber	37	4334
Panguitch	Garfield	41	6630
Parowan	Iron	32	6007
Price	Carbon	31	5558
Provo	Utah	31	4541
Randolph	Rich	50	6286
Richfield	Sevier	27	5338
St. George	Washington	21	2585
Salt Lake City	Salt Lake	28	4239
Tooele	Tooele	35	5029
Vernal	Uintah	39	5384

Note: To convert lb/ft2 to kN/m2, multiply by 0.0479. To convert feet to meters, multiply by 0.3048.

1. Statutory requirements of the Authority Having Jurisdiction are not included in this state ground snow load table.
2. For locations where there is substantial change in altitude over the city/town, the load applies at and below the cited elevation, with a tolerance of 100 ft (30 m).
3. For other locations in Utah, see Bean, B., Maguire, M., Sun, Y. (2018), "The Utah Snow Load Study," Utah State University Civil and Environmental Engineering Faculty Publications, Paper 3589, http://utahsnowload.usu.edu/, for ground snow load values.

(9) A new IBC, Section 1613.1.1, is added as follows: "1613.1.1 Effective Seismic Weight. In ASCE 12.7.2 and 12.14.8.1 as referenced in Section 1613.1, Definition of W, Item 4 is deleted and replaced with the following:

4. Where flat roof snow load, Pf, exceeds 30 psf, the snow load included in the effective seismic weight shall be calculated, in accordance with the following equation: Ws = (0.20 + 0.025(A-5))Pf >= 0.20 Pf.

WHERE:

Ws = Weight of snow to be included as effective seismic weight A =

Elevation above sea level at the location of the structure (ft./1,000) Pf =

Design roof snow load, psf.

For the purposes of this section, snow load shall be assumed uniform on the roof footprint without including the effects of drift or sliding. The Importance Factor, I, used in calculating Pf may be considered 1.0 for use in the formula for Ws."

Amended by Chapter 20, 2019 General Session

15A-3-108 Amendments to Chapters 17 through 19 of IBC.

(1) A new IBC, Section 1807.1.6.4, is added as follows: "1807.1.6.4 Empirical concrete foundation design. Group R, Division 3 Occupancies three stories or less in height, and Group U Occupancies, which are constructed in accordance with Section 2308, or with other methods employing repetitive wood-frame construction or repetitive cold-formed steel structural member construction, shall be permitted to have concrete foundations constructed in accordance with Table 1807.1.6.4."

(2) A new IBC, Table 1807.1.6.4 is added as follows:

"TABLE 1807.1.6.4

EMPIRICAL FOUNDATION WALLS (1,7,8)

Max. Height	Top Edge Support	Min. Thickness	Vertical Steel (2)	Horizontal Steel (3)	Steel at Openings (4)	Max. Lintel Length	Min. Lintel Length
2'(610 mm)	None	6"	(5)	2- #4 Bars	2- #4 Bars above 1- #4 Bar each side 1- #4 Bar below	2'(610 mm)	2" for each foot of opening width; min. 6"
3'(914 mm)	None	6"	#4@32"	3- #4 Bars	2- #4 Bars above 1- #4 Bar each side 1- #4 Bar below	2'(610 mm)	2" for each foot of opening width; min. 6"
4'(1,219 mm)	None	6"	#4@32"	4- #4 Bars	2- #4 Bars above 1- #4 Bar each side 1- #4 Bar below	3'(914 mm)	2" for each foot of opening width; min. 6"
6'(1,829 mm)	Floor or roof Diaphragm (6)	8"	#4@24"	5- #4 Bars	2- #4 Bars above 1- #4 Bar each side 1- #4 Bar below	6'(1,829 mm)	2" for each foot of opening width; min. 6"
8'(2,438 mm)	Floor or roof Diaphragm (6)	8"	#4@24"	6- #4 Bars	2- #4 Bars above 1- #4 Bar each side 1- #4 Bar below	6'(1,829 mm)	2" for each foot of opening width; min. 6"

9'(2,743 mm)	Floor or roof Diaphragm (6)	8"	#4@16"	7- #4 Bars	2- #4 Bars above 1- #4 Bar each side 1- #4 Bar below	6'(1,829 mm)	2" for each foot of opening width; min. 6"

Over 9'(2,743 mm), Engineering required for each column

Footnotes:

(1) Based on 3,000 psi (20.6 Mpa) concrete and 60,000 psi (414 Mpa) reinforcing steel.

(2) To be placed in the center of the wall, and extended from the footing to within three inches (76 mm) of the top of the wall; dowels of #4 bars to match vertical steel placement shall be provided in the footing, extending 24 inches (610 mm) into the foundation wall.

(3) One bar shall be located in the top four inches (102 mm), one bar in the bottom four inches (102 mm) and the other bars equally spaced between. Such bar placement satisfies the requirements of Section 1805.9. Corner reinforcing shall be provided so as to lap 24 inches (610 mm).

(4) Bars shall be placed within two inches (51 mm) of the openings and extend 24 inches(610 mm) beyond the edge of the opening; vertical bars may terminate three inches (76 mm) from the top of the concrete.

(5) Dowels of #4 bar at 32 inches on center shall be provided in the footing, extending 18 inches (457 mm) into the foundation wall.

(6) Diaphragm shall conform to the requirements of Section 2308.

(7) Footing shall be a minimum of nine inches thick by 20 inches wide.

(8) Soil backfill shall be soil classification types GW, GP, SW, or SP, per Table 1610.1. Soil shall not be submerged or saturated in groundwater."

(3) A new IBC, Section 1905.1.9, is added as follows: "1905.1.9 ACI 318, Table 4.2.1." Modify ACI318, Table 19.3.1.1 to read as follows: In the portion of the table designated as "Conditions", the following Exposure category and class is deleted and replaced with the following: "F0: Concrete elements not exposed to freezing and thawing cycles to include footing and foundation elements that are completely buried in soil."

Amended by Chapter 249, 2016 General Session

15A-3-109 Amendments to Chapters 20 through 22 of IBC.

IBC, Chapters 20 through 22 are not amended.

Enacted by Chapter 14, 2011 General Session

15A-3-110 Amendments to Chapters 23 through 25 of IBC.

(1) A new IBC, Section 2306.1.5, is added as follows: "2306.1.5 Load duration factors. The allowable stress increase of 1.15 for snow load, shown in Table 2.3.2, Frequently Used Load Duration Factors, Cd, of the National Design Specifications, shall not be utilized at elevations above 5,000 feet (1,524 M)."

(2) In IBC, Section 2308.3.1, the words "6 feet (1829 mm)" and "4 feet (1219 mm)" are deleted and each replaced with the words "32 inches."

Amended by Chapter 20, 2019 General Session

15A-3-111 Amendments to Chapters 26 through 28 of IBC

IBC, Chapters 26 through 28 are not amended.

Enacted by Chapter 14, 2011 General Session

15A-3-112 Amendments to Chapters 29 through 31 of IBC.

(1) In IBC [P] Table 2902.1 the following changes are made:

(a) In the row for "E" occupancy in the field for "OTHER" a new footnote i is added.

(b) In the row for "I-4" occupancy in the field for "OTHER" a new footnote i is added.

(c) A new footnote h is added as follows: "FOOTNOTE: g. When provided, subject to footnotei, in public toilet facilities there shall be an equal number of diaper changing facilities in male toilet rooms and female toilet rooms."

(d) A new footnote h is added to the table as follows: "FOOTNOTE h: Non-residential childcare facilities shall comply with additional sink requirements of Utah Administrative Code, R381-60-9, Hourly Child Care Centers, R381-70-9, Out of School Time Child Care Programs, and R381-100-9, Child Care Centers."

(e) A new footnote i is added to the table as follows: "FOOTNOTE i: A building owned by a state government entity or by a political subdivision of the state that allows access to the public shall provide diaper changing facilities in accordance with footnote h if:

1. the building is newly constructed; or
2. a bathroom in the building is renovated."

(f) Footnote f is deleted and replaced with the following: "FOOTNOTE f: The required number and type of plumbing fixtures for outdoor public swimming pools shall be in accordance with Utah Administrative Code, R392-302, Design, Construction and Operation of Public Pools."

(2) A new IBC, Section [P]2902.7, is added as follows:

"[P]2902.7 Toilet Facilities for Workers.

Toilet facilities shall be provided for construction workers and such facilities shall be maintained in a sanitary condition. Construction worker toilet facilities of the non sewer type shall conform to ANSI Z4.3."

(3)IBC, Section 3001.2, is deleted.

(4) In IBC, Section 3006.5, a new exception is added as follows: "Exception: Hydraulic elevator sand roped hydraulic elevators with a rise of 50 feet or less."

(5) In IBC, Section 3109.1, the words "the International Swimming Pool and Spa Code" at the end of the section are deleted and replaced with the words "Utah Administrative Code, R392-302, Design, Construction and Operation of Public Pools."

Amended by Chapter 441, 2020 General Session

15A-3-113 Amendments to Chapters 32 through 35 of IBC.

In IBC, Chapter 35, the referenced standard ICCA117.1-09, Section 606.2, Exception 1 is modified to include the following sentence at the end of the exception:

"The minimum clear floor space shall be centered on the sink assembly." Amended

by Chapter 20, 2019 General Session

Part 2
Statewide Amendments to International Residential Code

15A-3-201 General provision.

(1) The amendments in this part are adopted as amendments to the IRC to be applicable statewide.

(2) The statewide amendments to the following which may be applied to detached one- and two family dwellings and multiple single-family dwellings shall be applicable to the corresponding provisions of the IRC:

(a) IBC under Part 1, Statewide Amendments to International Building Code;

(b) IPC under Part 3, Statewide Amendments to International Plumbing Code;

(c) IMC under Part 4, Statewide Amendments to International Mechanical Code;

(d) IFGC under Part 5, Statewide Amendments to International Fuel Gas Code;

(e) NEC under Part 6, Statewide Amendments to National Electrical Code; and

(f) IECC under Part 7, Statewide Amendments to International Energy Conservation Code.

Amended by Chapter 189, 2014 General Session

15A-3-202 Amendments to Chapters 1 through 5 of IRC.

(1) In IRC, Section R102, a new Section R102.7.2 is added as follows: "R102.7.2 Physical change for bedroom window egress. A structure whose egress window in an existing bedroom is smaller than required by this code, and that complied with the construction code in effect at the time that the bedroom was finished, is not required to undergo a physical change to conform to this code if the change would compromise the structural integrity of the structure or could not be completed in accordance with other applicable requirements of this code, including setback and window well requirements."

(2) In IRC, Section R108.3, the following sentence is added at the end of the section: "The building official shall not request proprietary information."

(3) In IRC, Section 109:

(a) A new IRC, Section 109.1.5, is added as follows: "R109.1.5 Weather-resistant exterior wall envelope inspections. An inspection shall be made of the weather-resistant exterior wall envelope as required by Section R703.1 and flashings as required by Section R703.8 to prevent water from entering the weather-resistive barrier."

(b) The remaining sections are renumbered as follows: R109.1.6 Other inspections; R109.1.6.1 Fire- and smoke-resistance-rated construction inspection; R109.1.6.2 Reinforced masonry, insulating concrete form (ICF) and conventionally formed concrete wall inspection; and R109.1.7 Final inspection.

(4) IRC, Section R114.1, is deleted and replaced with the following: "R114.1 Notice to owner. Upon notice from the building official that work on any building or structure is being prosecuted contrary to the provisions of this code or other pertinent laws or ordinances or in an unsafe and dangerous manner, such work shall be immediately stopped. The stop work

order shall be in writing and shall be given to the owner of the property involved, or to the owner's agent or to the person doing the work; and shall state the conditions under which work will be permitted to resume."

(5) In IRC, Section R202, the following definition is added: "CERTIFIED BACKFLOW PREVENTER ASSEMBLY TESTER: A person who has shown competence to test Backflow prevention assemblies to the satisfaction of the authority having jurisdiction under Utah Code, Subsection 19-4-104(4)."

(6) In IRC, Section R202, the definition of "Cross Connection" is deleted and replaced with the following: "CROSS CONNECTION. Any physical connection or potential connection or arrangement between two otherwise separate piping systems, one of which contains potable water and the other either water of unknown or questionable safety or steam, gas, or chemical, whereby there exists the possibility for flow from one system to the other, with the direction of flow depending on the pressure differential between the two systems (see "Backflow, Water Distribution")."

(7) In IRC, Section 202, in the definition for gray water a comma is inserted after the word "washers"; the word "and" is deleted; and the following is added to the end: "and clear water wastes which have a pH of 6.0 to 9.0; are non-flammable; non-combustible; without objectionable odors; non-highly pigmented; and will not interfere with the operation of the sewer treatment facility."

(8) In IRC, Section R202, the definition of "Potable Water" is deleted and replaced with the following: "POTABLE WATER. Water free from impurities present in amounts sufficient to cause disease or harmful physiological effects and conforming to the Utah Code, Title 19, Chapter 4, Safe Drinking Water Act, and Title 19, Chapter 5, Water Quality Act, and the regulations of the public health authority having jurisdiction."

(9) IRC, Figure R301.2(5), is deleted and replaced with R301.2(5) as follows:

"TABLE R301.2(5)

GROUND SNOW LOADS FOR SELECTED LOCATIONS IN UTAH

City/Town	County	Ground Snow Load (lb/ft2)	Elevation (ft)
Beaver	Beaver	35	5886
Brigham City	Box Elder	42	4423
Castle Dale	Emery	32	5669
Coalville	Summit	57	5581
Duchesne	Duchesne	39	5508
Farmington	Davis	35	4318
Fillmore	Millard	30	5138
Heber City	Wasatch	60	5604
Junction	Piute	27	6030
Kanab	Kane	25	4964
Loa	Wayne	37	7060

Logan	Cache	43	4531
Manila	Daggett	26	6368
Manti	Sanpete	37	5620
Moab	Grand	21	4029
Monticello	San Juan	67	7064
Morgan	Morgan	52	5062
Nephi	Juab	39	5131
Ogden	Weber	37	4334
Panguitch	Garfield	41	6630
Parowan	Iron	32	6007
Price	Carbon	31	5558
Provo	Utah	31	4541
Randolph	Rich	50	6286
Richfield	Sevier	27	5338
St. George	Washington	21	2585
Salt Lake City	Salt Lake	28	4239
Tooele	Tooele	35	5029
Vernal	Uintah	39	5384

Note: To convert lb/ft2 to kN/m2, multiply by 0.0479. To convert feet to meters, multiply by 0.3048.

1. Statutory requirements of the Authority Having Jurisdiction are not included in this state ground snow load table.
2. For locations where there is substantial change in altitude over the city/town, the load applies at and below the cited elevation, with a tolerance of 100 ft (30 m).
3. For other locations in Utah, see Bean, B., Maguire, M., Sun, Y. (2018), "The Utah Snow Load Study," Utah State University Civil and Environmental Engineering Faculty Publications, Paper 3589, http://utahsnowload.usu.edu/, for ground snow load values.

(10) IRC, Section R301.6, is deleted and replaced with the following: "R301.6 Utah Snow Loads. The snow loads specified in Table R301.2(5b) shall be used for the jurisdictions identified in that table. Otherwise, for other locations in Utah, see Bean, B., Maguire, M., Sun, Y. (2018), "The Utah Snow Load Study," Utah State University Civil and Environmental Engineering Faculty Publications, Paper 3589, http://utahsnowload.usu.edu/, for ground snow load values."

(11) In IRC, Section R302.2, the following sentence is added after the second sentence: "When an access/maintenance agreement or easement is in place, plumbing, mechanical ducting, schedule 40 steel gas pipe, and electric service conductors including feeders, are permitted to penetrate the common wall at grade, above grade, or below grade."

(12) In IRC, Section R302.5.1, the words "self-closing device" are deleted and replaced with "self latching hardware."
(13) IRC, Section R302.13, is deleted.
(14) In IRC, Section R303.4, the number "5" is changed to "3" in the first sentence.
(15) IRC, Sections R311.7.4 through R311.7.5.3, are deleted and replaced with the following: "R311.7.4 Stair treads and risers. R311.7.5.1 Riser height. The maximum riser height shall be 8 inches (203 mm). The riser shall be measured vertically between leading edges of the adjacent treads. The greatest riser height within any flight of stairs shall not exceed the smallest by more than 3/8 inch (9.5 mm).
R311.7.5.2 Tread depth. The minimum tread depth shall be 9 inches (228 mm). The tread depth shall be measured horizontally between the vertical planes of the foremost projection of adjacent treads and at a right angle to the tread's leading edge. The greatest tread depth within any flight of stairs shall not exceed the smallest by more than 3/8 inch (9.5 mm). Winder treads shall have a minimum tread depth of 10 inches (254 mm) measured as above at a point 12 inches (305 mm) from the side where the treads are narrower. Winder treads shall have a minimum tread depth of 6 inches (152 mm) at any point. Within any flight of stairs, the greatest winder tread depth at the 12-inch (305 mm) walk line shall not exceed the smallest by more than 3/8 inch (9.5 mm).
R311.7.5.3 Profile. The radius of curvature at the leading edge of the tread shall be no greater than 9/16 inch (14.3 mm). A nosing not less than 3/4 inch (19 mm) but not more than 1 1/4 inches (32 mm) shall be provided on stairways with solid risers. The greatest nosing projection shall not exceed the smallest nosing projection by more than 3/8 inch (9.5 mm) between two stories, including the nosing at the level of floors and landings. Beveling of nosing shall not exceed 1/2 inch (12.7 mm). Risers shall be vertical or sloped from the underside of the leading edge of the tread above at an angle not more than 30 degrees (0.51 rad) from the vertical. Open risers are permitted, provided that the opening between treads does not permit the passage of a 4-inch diameter (102 mm) sphere.
Exceptions.
1. A nosing is not required where the tread depth is a minimum of 10 inches (254 mm).
2. The opening between adjacent treads is not limited on stairs with a total rise of 30 inches(762 mm) or less."
(16) IRC, Section R312.2, is deleted.
(17) IRC, Sections R313.1 through R313.2.1, are deleted and replaced with the following: "R313.1 Design and installation. When installed, automatic residential fire sprinkler systems for townhouses or one- and two-family dwellings shall be designed and installed in accordance with Section P2904 or NFPA 13D."
(18) In IRC, Section 315.3, the following words are added to the first sentence after the word "installed": "on each level of the dwelling unit and."
(19) In IRC, Section R315.5, a new exception, 3, is added as follows:
"3. Hard wiring of carbon monoxide alarms in existing areas shall not be required where the alterations or repairs do not result in the removal of interior wall or ceiling finishes exposing the structure, unless there is an attic, crawl space or basement available which could provide access for hard wiring, without the removal of interior finishes."

(20) A new IRC, Section R315.7, is added as follows: " R315.7 Interconnection. Where more than one carbon monoxide alarm is required to be installed within an individual dwelling unit in accordance with Section R315.1, the alarm devices shall be interconnected in such a manner that the actuation of one alarm will activate all of the alarms in the individual unit. Physical interconnection of smoke alarms shall not be required where listed wireless alarms are installed and all alarms sound upon activation of one alarm.
Exception: Interconnection of carbon monoxide alarms in existing areas shall not be required where alterations or repairs do not result in removal of interior wall or ceiling finishes exposing the structure, unless there is an attic, crawl space or basement available which could provide access for interconnection without the removal of interior finishes."

(21) In IRC, Section R317.1.5, the period is deleted and the following language is added to the end of the paragraph: "or treated with a moisture resistant coating."

(22) In IRC, Section 326.1, the words "residential provisions of the" are added after the words "pools and spas shall comply with".

~~In IRC, Section R327.1 is deleted and replaced with the following:~~ A new IRC, Section 327 is added as follows: Section R327 Stationary Storage Battery Systems "327.1 General. Energy storage systems (ESS) shall comply with the provisions of this section. Exceptions: 1. ESS listed and labeled in accordance with UL 9540 and marked "For use in residential dwelling units", where installed in accordance with the manufacturer's instruction and NFPA 70. 2. ESS less than 1kWh (3.6 megajoules)."

~~(30) In IRC, Section R327.2 is deleted and replaced with the following: "~~327.2 Equipment listings. ESS shall be listed and labeled in accordance with UL 9540. Utah Code Page 79 Exception: Where approved, repurposed unlisted battery systems from electric vehicle are allowed to be installed outdoors or in detached sheds located not less than 5 feet (1524 mm) from exterior walls, property lines and public ways."

~~(31) In IRC, Section R327.3 is deleted and replaced with the following:~~ "327.3 Installation. ESS shall be installed in accordance with the manufacturer's instructions and their listing."

~~(32) In IRC, Section R327, a new section 327.3.1 is added as follows:~~ "327.3.1 Spacing. Individual units shall be separate from each other by not less than three feet (914 mm) except where smaller separation distances are documented to be adequate based on large-scale fire testing complying with Section 1206.2.3 of the adopted International Fire Code."

~~(33) In IRC, Section 327.4 is deleted and replaced with the following:~~ "327.4 Locations. ESS shall be installed only in the following locations: 1. Detached garages and detached accessory structures. 2. Attached garages separated from the dwelling unit living space in accordance with Section R302.6. 3. Outdoors or on the exterior side of exterior walls located not less than 3 feet (914 mm) from doors and windows directly entering the dwelling unit. 4. Enclosed utility closets, basements, storage or utility spaces within dwelling units with finished or noncombustible walls and ceilings. Walls and ceilings of unfinished wood-framed construction shall be provided with not less than 5/8-inch (15.9 mm) Type X gypsum wallboard. ESS shall not be installed in sleeping rooms, or closets or spaces opening directly into sleeping rooms."

~~(34) In IRC, Section 327.5 is deleted and replaced with the following:~~ "327.5 Energy ratings. Individual ESS units shall have a maximum rating of 20 kWh. The aggregate rating of the ESS shall not exceed: 1. 40 kWh within utility closets, basements, and storage or utility spaces. 2. 80 kWh in attached or detached garages and detached accessory structures. 3. 80 kWh on exterior walls. 4. 80 kWh outdoors on the ground. ESS installations exceeding the permitted

individual or aggregate ratings shall be installed in accordance with Sections 1206.2.1 through 1206.2.12 of the adopted International Fire Code."

~~(35) In IRC, Section 327.6 is deleted and replaced with the following:~~ "327.6 Electrical installation. ESS shall be installed in accordance with NFPA 70. Inverters shall be listed and labeled in 27 is accordance with UL 1741 or provided as part of the UL 9540 listing. Systems connected to the utility grid shall use inverters listed for utility interaction."

~~(36) In IRC, Section 327, a new section 327.7 is added as follows:~~ "327.7 Fire detection. Rooms and areas within dwelling units, basements, and attached garages in which ESS are installed shall be protected by smoke alarms in accordance with Section R314. A heat detector, listed and interconnected to the smoke alarms, shall be installed in locations within dwelling units and attached garages where smoke alarms cannot be installed based on their listing."

~~(37) In IRC, Section 327, a new section 327.8 is added as follows:~~ "327.8 Protection from impact. ESS installed in a location subject to vehicle damage shall be protected by approved barriers."

~~(38) In IRC, Section 327, a new section 327.9 is added as follows:~~ "327.9 Ventilation. Indoor installations of ESS that include batteries that produce hydrogen or other flammable gasses during charging shall be provided with mechanical ventilation in accordance with Section M1307.4."

~~(39) In IRC, Section 327, a new section 327.10 is added as follows:~~ "327.10 Electric vehicle use. The temporary use of an owner or occupant's electric-powered vehicle to power a dwelling Utah Code Page 80 unit while parked in an attached or detached garage or outdoors shall comply with the vehicle manufacturer's instructions and NFPA 70."

~~(40) In IRC, Section 327, a new section 327.11 is added as follows:~~ "327.11 Signage. A sign located on the exterior of the dwelling shall be installed at a location approved by the authority having jurisdiction which identifies the battery chemistry included in the ESS. This sign shall be of sufficient durability to withstand the environment involved and shall not be handwritten." I comply with".

(23) In IRC, Section R403.1.6, a new Exception 3 is added as follows: " 3. When anchor bolt spacing does not exceed 32 inches (813 mm) apart, anchor bolts may be placed with a minimum of two bolts per plate section located not less than 4 inches (102 mm) from each end of each plate section at interior bearing walls, interior braced wall lines, and at all exterior walls."

(24) In IRC, Section R403.1.6.1, a new exception is added at the end of Item 2 and Item 3 as follows: "Exception: When anchor bolt spacing does not exceed 32 inches (816 mm) apart, anchor bolts may be placed with a minimum of two bolts per plate section located not less than 4 inches (102 mm) from each end of each plate section at interior bearing walls, interior braced wall lines, and at all exterior walls."

(25) In IRC, Section R404.1, a new exception is added as follows: "Exception: As an alternative to complying with Sections R404.1 through R404.1.5.3, concrete and masonry foundation walls may be designed in accordance with IBC Sections 1807.1.5 and 1807.1.6 as amended in Section 1807.1.6.4 and Table 1807.1.6.4 under these rules."

(26) In IRC, Section R405.1, a new exception is added as follows: "Exception: When a geotechnical report has been provided for the property, a drainage system is not required

unless the drainage system is required as a condition of the geotechnical report. The geological report shall make a recommendation regarding a drainage system."

Amended by Chapter 441, 2020 General Session

15A-3-203 Amendments to Chapters 6 through 15 of IRC.

(1) In IRC, Section N1101.5 (R103.2), all words after the words "herein governed." are deleted and replaced with the following: "Construction documents include all documentation required to be submitted in order to issue a building permit."

(2) In IRC, Section N1101.12 (R303.3), all wording after the first sentence is deleted.

(3) In IRC, Section N1101.13 (R401.2), add Exception as follows:
"Exception: A project complies if the project demonstrates compliance, using the software RES Check 2012 Utah Energy Conservation Code, of:
(a) on or after January 1, 2017, and before January 1, 2019, "3 percent better than code";
(b) on or after January 1, 2019, and before January 1, 2021, "4 percent better than code"; and
(c) after January 1, 2021, "5 percent better than code.""

(4) In IRC, Table N1102.2 (R402.1.2), in the column titled MASS WALL R-VALUE, a new footnote j is added as follows: "j. Log walls complying with ICC400 and with a minimum average wall thickness of 5 inches or greater shall be permitted in Zones 5 through 8 when overall window glazing has a .31 U-factor or lower, minimum heating equipment efficiency is 90 AFUE
(gas) or 84 AFUE (oil), and all other component requirements are met."

(5) In IRC, Section N1102.4.1 (R402.4.1), in the first sentence, the word "and" is deleted and replaced with the word "or."

(6) In IRC, Section N1102.4.1.1 (R402.4.1.1), the last sentence is deleted and replaced with the following: "Where allowed by the code official, the builder may certify compliance to components criteria for items which may not be inspected during regularly scheduled inspections."

(7) In IRC, Section N1102.4.1.2 (R402.4.1.2), the following changes are made:
(a) In the first sentence:
(i) "The building or dwelling unit" is deleted and replaced with "A single-family dwelling";
(ii) after January 1, 2019, replace the word "five" with "3.5"; and
(iii) the words "in Climate Zones 1 and 2, and three air changes per hour in Climate Zones3 through 8" are deleted.
(b) The following sentence is inserted after the first sentence: "A multi-family dwelling and townhouse shall be tested and verified as having an air leakage rate of not exceeding five air changes per hour."
(c) In the third sentence, the word "third" is deleted.
(d) The following sentence is inserted after the third sentence: "The following parties shall be approved to conduct testing: Parties certified by BPI or RESNET, or licensed contractors who have completed training provided by Blower Door Test equipment manufacturers or other comparable training."

(8) In IRC, Section N1103.3.3 (R403.3.3):

(a) the exception for duct air leakage testing is deleted; and
(b) the exception for duct air leakage is replaced:
(i) on or after January 1, 2017, and before January 1, 2019, with the following: "Exception: The duct air leakage test is not required for systems with all air handlers and at least 65% of all ducts (measured by length) located entirely within the building thermal envelope.";
(ii) on or after January 1, 2019, and before January 1, 2021, with the following: "Exception: The duct air leakage test is not required for systems with all air handlers and at least 75% of all ducts (measured by length) located entirely within the building thermal envelope."; and
(iii) on or after January 1, 2021, with the following: "Exception: The duct air leakage test is not required for systems with all air handlers and at least 80% of all ducts (measured by length) located entirely within the building thermal envelope."

(9) In IRC, Section N1103.3.3 (R403.3.3), the following is added after the exception: "The following parties shall be approved to conduct testing: Parties certified by BPI or RESNET, or licensed contractors who have completed either training provided by Duct Test equipment manufacturers or other comparable training."

(10) In IRC, Section N1103.3.4 (R403.3.4):
(a) in Subsection 1, the number 4 is changed to 8, the number 113.3 is changed to 170, the number 3 is changed to 6, the number 85 is changed to 114.6; and (b) in Subsection 2:
(i) on or after January 1, 2017, and before January 1, 2019, the number 4 is changed to 8 and the number 113.3 is changed to 226.5;
(ii) on or after January 1, 2019, and before January 1, 2021, the number 4 is changed to 7 and the number 113.3 is changed to 198.2; and
(iii) on or after January 1, 2021, the number 4 is changed to 6 and the number 113.3 is changed to 169.9.

(11) In IRC, Section N1103.3.5 (R403.3.5), the words "or plenums" are deleted.

(12) In IRC, Section N1103.5.3 (R403.5.3), Subsection 5 is deleted and Subsections 6 and 7 are renumbered.

(13) IRC, Section N1103.6.1 (R403.6.1), is deleted and replaced with the following: "N1103.6.1 (R403.6.1) Whole-house mechanical ventilation system fan efficacy. Fans used to provide whole-house mechanical ventilation shall meet the efficacy requirements of Table N1103.6.1 (R403.6.1).
Exception: Where an air handler that is integral to tested and listed HVAC equipment is used to provide whole-house mechanical ventilation, the air handler shall be powered by an electronically commutated motor."

(14) In IRC, Section N1103.6.1 (R403.6.1), the table is deleted and replaced with the following:
TABLE N1103.6.1 (R403.6.1)
MECHANICAL VENTILATION SYSTEM FAN EFFICACY

FAN LOCATION	AIR FLOW RATE MINIMUM (CFM)	MINIMUM EFFICACY (CFM/WATT)	AIR FLOW RATE MAXIMUM (CFM)
HRV or ERV	Any	1.2 cfm/watt	Any
Range hoods	Any	2.8 cfm/watt	Any

In-line fan	Any	2.8 cfm/watt	Any
Bathroom, utility room	10	1.4 cfm/watt	<90
Bathroom, utility room	90	2.8 cfm/watt	Any

(15) In IRC, Section N1106.4 (R406.4), the table is deleted and replaced with the following:

TABLE N1106.4 (R406.4)
MAXIMUM ENERGY RATING INDEX

CLIMATE ZONE	ENERGY RATING INDEX
3	65
5	69
6	68

(16) In IRC, Section M1307.2, the words "In Seismic Design Categories D0, D1, and D2, and in townhouses in Seismic Design Category C", are deleted, and in Subparagraph 1, the last sentence is deleted.

(17) In IRC, Section M1402.1 the following is added at the end: "or UL/CSA 60335-2-40.

(18) In IRC, Section M1403 the word "ANCE" is deleted.

(17) IRC, Section M1411.8, is deleted.

(19) In IRC, Section M1412.1 the word "ANCE" is deleted.

(20) In IRC, Section M1413.1 the word "ANCE" is deleted.

Amended by Chapter 20, 2019 General Session

15A-3-204 Amendments to Chapters 16 through 25 of IRC.

A new IRC, Section G2401.2, is added as follows: "G2401.2 Meter Protection. Fuel gas services shall be in an approved location and/or provided with structures designed to protect the fuel gas meter and surrounding piping from physical damage, including falling, moving, or migrating ice and snow. If an added structure is used, it must provide access for service and comply with the IBC or the IRC."

Amended by Chapter 249, 2016 General Session

15A-3-205 Amendments to Chapters 26 through 35 of IRC.

(1) A new IRC, Section P2602.3, is added as follows: "P2602.3 Individual water supply. Where a potable public water supply is not available, individual sources of potable water supply shall be utilized, provided that the source has been developed in accordance with Utah Code, Sections 73-3-1 and 73-3-25, as administered by the Department of Natural Resources, Division of Water Rights. In addition, the quality of the water shall be approved by the local health department having jurisdiction."

(2) A new IRC, Section P2602.4, is added as follows: "P2602.4 Sewer required. Every building in which plumbing fixtures are installed and all premises having drainage piping shall be connected to a public sewer where the sewer is accessible and is within 300 feet of the

property line in accordance with Utah Code, Section 10-8-38; or an approved private sewage disposal system in accordance with Utah Administrative Code, Chapter 4, Rule R317, as administered by the Department of Environmental Quality, Division of Water Quality."

(3) In IRC, Section P2705, Item 5, the words "lavatory" and "lavatories" are deleted.

(4) In IRC, Section P2705, a new Item 6 is added as follows: "6. Lavatories. A lavatory shall not be set closer than 12 inches from its center to any side wall or partition. A lavatory shall be provided with a clearance of 24 inches in width and 21 inches in depth in front of the lavatory to any side wall, partition, or obstruction." Remaining item numbers are renumbered accordingly.

(5) In IRC, Section P2801.8, all words in the first sentence up to the word "water" are deleted.

(6) A new IRC, Section P2902.1.1, is added as follows: "P2902.1.1 Backflow assembly testing. The premise owner or the premise owner's designee shall have backflow prevention assemblies operation tested in accordance with administrative rules made by the Drinking Water Board at the time of installation, repair, and relocation and at least on an annual basis thereafter, or more frequently as required by the authority having jurisdiction. Testing shall be performed by a Certified Backflow Preventer Assembly Tester. The assemblies that are subject to this paragraph are the Spill Resistant Vacuum Breaker, the Pressure Vacuum Breaker Assembly, the Double Check Backflow Prevention Assembly, the Double Check Detector Assembly Backflow Preventer, the Reduced Pressure Principle Backflow Preventer, and Reduced Pressure Detector Assembly. Third-party certification for backflow prevention assemblies will consist of any combination of two certifications, laboratory or field. Acceptable third-party laboratory certifying agencies are ASSE, IAPMO, and USC-FCCCHR. USCFCCCHR currently provides the only field testing of backflow protection assemblies. Also see www.drinkingwater.utah.gov and rules made by the Drinking Water Board."

(7) In IRC, Section P2902.1, the following subsections are added as follows:

"P2902.1.1 General Installation Criteria.

Assemblies shall not be installed more than five feet above the floor unless a permanent platform is installed. The assembly owner, where necessary, shall provide devices or structures to facilitate testing, repair, and maintenance, and to insure the safety of the backflow technician.

P2902.1.2 Specific Installation Criteria.

P2902.1.2.1 Reduced Pressure Principle ~~Blackflow~~ Backflow Prevention Assembly.

The reduced pressure principle backflow prevention assembly shall be installed as follows:

a. The assembly may not be installed in a pit.
b. The relief valve of the assembly shall not be directly connected to a waste disposal line, including a sanitary sewer, a storm drain, or a vent.
c. The assembly shall be installed in a horizontal position only, unless listed or approved for vertical installation in accordance with Section 303.4.
d. The bottom of the assembly shall be installed a minimum of 12 inches above the floor or ground.
e. The body of the assembly shall be a minimum of 12 inches from any wall, ceiling, or obstacle, and shall be readily accessible for testing, repair, and maintenance.

P2902.1.2.2 Double Check Valve Backflow Prevention Assembly.

A double check valve backflow prevention assembly shall be installed as follows:

a. The assembly shall be installed in a horizontal position only, unless listed or approved for vertical installation.
b. The bottom of the assembly shall be a minimum of 12 inches above the ground or floor.
c. The body of the assembly shall be a minimum of 12 inches from any wall, ceiling, or obstacle, and shall be readily accessible for testing, repair, and maintenance.
d. If installed in a pit, the assembly shall be installed with a minimum of 12 inches of clearance between all sides of the vault, including the floor and roof or ceiling, with adequate room for testing and maintenance.

P2902.1.2.3 Pressure Vacuum Break Assembly and Spill Resistant Pressure Vacuum Breaker Assembly.

A pressure vacuum break assembly or a spill resistant pressure vacuum breaker assembly shall be installed as follows:

a. The assembly shall not be installed in an area that could be subject to backpressure or back drainage conditions.
b. The assembly shall be installed a minimum of 12 inches above all downstream piping and the highest point of use.
c. The assembly shall be a minimum of 12 inches from any wall, ceiling, or obstacle, and shall be readily accessible for testing, repair, and maintenance.
d. The assembly shall not be installed below ground, in a vault, or in a pit.
e. The assembly shall be installed in a vertical position."

(8) In IRC, Section 2903.5, at the beginning of the second sentence, insert "If installed,".

(9) In IRC, Section P2903.9.3, the first sentence is deleted and replaced with the following: "Unless the plumbing appliance or plumbing fixture has a wall-mount valve, shutoff valves shall be required on each fixture supply pipe to each plumbing appliance and to each plumbing fixture other than bathtubs and showers."

(10) IRC, Section P2910.5, is deleted and replaced with the following:

"P2910.5 Potable water connections.

When a potable water system is connected to a non potable water system, the potable water system shall be protected against backflow by a reduced pressure backflow prevention assembly or an air gap installed in accordance with Section 2901." (11) IRC, Section P2910.9.5, is deleted and replaced with the following:

"P2910.9.5 Makeup water.

Where an uninterrupted non potable water supply is required for the intended application, potable or reclaimed water shall be provided as a source of makeup water for the storage tank. The makeup water supply shall be protected against backflow by means of an air gap not less than 4 inches (102 millimeters) above the overflow or by a reduced pressure backflow prevention assembly installed in accordance with Section 2902."

(12) In IRC, Section P2911.12.4, the following words are deleted: "and backwater valves."

(13) In IRC, Section P2912.15.6, the following words are deleted: "and backwater valves."

(14) ~~In IRC, Section P2913.4.2, the following words are deleted: "and backwater valves."~~

(15) IRC, Section P3009, is deleted and replaced with the following:

"P3009 Connected to non potable water from on-site water reuse systems.

Non potable systems utilized for subsurface irrigation for single-family residences shall comply with the requirements of R317-401, UAC, Graywater Systems."

(16) In IRC, Section P3103.6, the following sentence is added at the end of the paragraph: "Vents extending through the wall shall terminate not less than 12 inches from the wall with an elbow pointing downward."

(17) In IRC, Section P3104.4, the following sentence is added at the end of the paragraph: "Horizontal dry vents below the flood level rim shall be permitted for floor drain and floor sink installations when installed below grade in accordance with Chapter 30, and Sections P3104.2 and P3104.3. A wall cleanout shall be provided in the vertical vent."

Amended by Chapter 20, 2019 General Session

15A-3-206 Amendments to Chapters 37, 39, and 44 and Appendix F of IRC.

(1) In IRC, Section E3705.4.5, the following words are added after the word "assemblies": "with ungrounded conductors 10 AWG and smaller".

(2) In IRC, Section E3901.9, the following exception is added:
"Exception: Receptacles or other outlets adjacent to the exterior walls of the garage, outlets adjacent to an exterior wall of the garage, or outlets in a storage room with entry from the garage may be connected to the garage branch circuit."

(3) IRC, Section E3902.16 is deleted.

(4) In Section E3902.17:
(a) following the word "Exception" the number "1." is added; and
(b) at the end of the section, the following sentences are added:
"2. This section does not apply for a simple move or an extension of a branch circuit or an outlet which does not significantly increase the existing electrical load. This exception does not include changes involving remodeling or additions to a residence."

(5) IRC, Chapter 44, is amended by adding the following reference standard:

"Standard reference number	Title	Referenced in code section number
USC-FCCCHR 10th Edition Manual of Cross Connection Control	Foundation for Cross-Connection Control and Hydraulic Research University of Southern California Kaprielian Hall 300 Los Angeles CA 90089-2531	Table P2902.3"

(6) IRC, Chapter 44. is amended by deleting the standard for "ANCE".

(7) In IRC, Chapter 44 the standard for ASHRAE is modified by changing "2013" to "2019" and adding the words "3rd edition" after the word "Dehumidifiers".

(8) IRC, Chapter 44, the standard for UL is modified as follows:

(a) "2011" is changed to "2015" and the words "with revision through July 2015" are deleted

(b) "the word "ANCE" is deleted , "2012" is changed to "2019", "- 40" is added after "Part 2", the words "Motor Compressors" are deleted and replaced with "Electrical Heat Pumps, Air Conditioners and Dehumidifiers-3rd Edition.

~~(6)~~(9)

(a) When passive radon controls or portions thereof are voluntarily installed, the voluntary installation shall comply with Appendix F of the IRC.
(b) An additional inspection of a voluntary installation described in Subsection (6)(a) is not required.

Amended by Chapter 186, 2018 General Session

Part 3
Statewide Amendments to International Plumbing Code

15A-3-301 General provision.

The amendments in this part are adopted as amendments to the IPC to be applicable statewide.

Enacted by Chapter 14, 2011 General Session

15A-3-302 Amendments to Chapters 1 and 2 of IPC.

(1) In IPC, Section 202, the definition for "Backflow Backpressure, Low Head" is deleted.
(2) In IPC, Section 202, the following definition is added: "Certified Backflow Preventer Assembly Tester. A person who has shown competence to test Backflow prevention assemblies to the satisfaction of the authority having jurisdiction under Utah Code, Subsection 19-4-104(4)."
(3) In IPC, Section 202, the following definition is added: "Contamination (High Hazard). An impairment of the quality of the potable water that creates an actual hazard to the public health through poisoning or through the spread of disease by sewage, industrial fluids or waste."
(4) In IPC, Section 202, the definition for "Cross Connection" is deleted and replaced with the following: "Cross Connection. Any physical connection or potential connection or arrangement between two otherwise separate piping systems, one of which contains potable water and the other either water of unknown or questionable safety or steam, gas, or chemical, whereby there exists the possibility for flow from one system to the other, with the direction of flow depending on the pressure differential between the two systems (see "Backflow")."
(5) In IPC, Section 202, the following definition is added: "Deep Seal Trap. A manufactured or field fabricated trap with a liquid seal of 4" or larger."
(6) In IPC, Section 202, the definition for "Essentially Nontoxic Transfer Fluid" is deleted and replaced with the following:
"ESSENTIALLY NONTOXIC TRANSFER FLUID. Fluids having a Gosselin rating of 1, including propylene glycol; and mineral oil."
(7) In IPC, Section 202, the definition for "Essentially Toxic Transfer Fluid" is deleted and replaced with the following:
"ESSENTIALLY TOXIC TRANSFER FLUID. Soil, waste, or gray water; and any fluid that is not an essentially nontoxic transfer fluid under this code."
(8) In IPC, Section 202, the following definition is added: "High Hazard. See Contamination."
(9) In IPC, Section 202, the following definition is added: "Low Hazard. See Pollution."
(10) In IPC, Section 202, the following definition is added: "Motor Vehicle Waste Disposal Well. An injection well that discharges to the subsurface by way of a floor drain, septic system, French drain, dry well, or similar system that receives or has received fluid from a facility engaged in vehicular repair or maintenance activities, including an auto body repair shop,

automotive repair shop, new and used car dealership, specialty repair shop, or any other facility that does any vehicular repair work. A motor vehicle waste disposal well is subject to rulemaking under Section 19-5-104 regarding underground injection."

(11) In IPC, Section 202, the following definition is added: "Pollution (Low Hazard). An impairment of the quality of the potable water to a degree that does not create a hazard to the public health but that does adversely and unreasonably affect the aesthetic qualities of such potable water for domestic use."

(12) In IPC, Section 202, the definition for "Potable Water" is deleted and replaced with the following: "Potable Water. Water free from impurities present in amounts sufficient to cause disease or harmful physiological effects and conforming to the Utah Code, Title 19, Chapter 4, Safe Drinking Water Act, and Title 19, Chapter 5, Water Quality Act, and the regulations of the public health authority having jurisdiction."

Amended by Chapter 20, 2019 General Session

15A-3-303 Amendments to Chapter 3 of IPC.

(1) In IPC, Section 303.4, the following exception is added:
"Exception: Third-party certification for backflow prevention assemblies will consist of any combination of two certifications, laboratory or field. Acceptable third party laboratory certifying agencies are ASSE, IAPMO, and USC-FCCCHR. USC-FCCCHR currently provides the only field testing of backflow protection assemblies. Also see www.drinkingwater.utah.gov and Division of Drinking Water Rule, Utah Administrative Code, R309-105-12(4)."

(2) IPC, Section 311.1, is deleted.

(3) In IPC, Section 312.3, the following is added at the end of the paragraph:
"Where water is not available at the construction site or where freezing conditions limit the use of water on the construction site, plastic drainage and vent pipe may be permitted to be tested with air. The following procedures shall be followed:

1. Contractor shall recognize that plastic is extremely brittle at lower temperatures and can explode, causing serious injury or death.
2. Contractor assumes all liability for injury or death to persons or damage to property or for claims for labor and/or material arising from any alleged failure of the system during testing with air or compressed gasses.
3. Proper personal protective equipment, including safety eyewear and protective headgear, should be worn by all individuals in any area where an air or gas test is being conducted.
4. Contractor shall take all precautions necessary to limit the pressure within the plastic piping.
5. No drain and vent system shall be pressurized in excess of 6 psi as measured by accurate gauges graduated to no more than three times the test pressure.
6. The pressure gauge shall be monitored during the test period, which should not exceed 15 minutes.
7. At the conclusion of the test, the system shall be depressurized gradually, all trapped air or gases should be vented, and test balls and plugs should be removed with caution."

(4) In IPC, Section 312.5, the following is added at the end of the paragraph:
"Where water is not available at the construction site or where freezing conditions limit the use of water on the construction site, plastic water pipes may be permitted to be tested with air. The following procedures shall be followed:

1. Contractor shall recognize that plastic is extremely brittle at lower temperatures and can explode, causing serious injury or death.
2. Contractor assumes all liability for injury or death to persons or damage to property or for claims for labor and/or material arising from any alleged failure of the system during testing with air or compressed gasses.
3. Proper personal protective equipment, including safety eyewear and protective headgear, should be worn by all individuals in any area where an air or gas test is being conducted.
4. Contractor shall take all precautions necessary to limit the pressure within the plastic piping.
5. Water supply systems shall be pressure tested to a minimum of 50 psi but not more than 80 psi as measured by accurate gauges graduated to no more than three times the test pressure.
6. The pressure gauge shall be monitored during the test period, which should not exceed 15 minutes.
7. At the conclusion of the test, the system shall be depressurized gradually, all trapped air or gases should be vented, and test balls and plugs should be removed with caution."

(5) A new IPC, Section 312.10.3, is added as follows: "312.10.3 Tester Qualifications. Testing shall be performed by a Utah Certified Backflow Preventer Assembly Tester in accordance with Utah Administrative Code, R309-305." Amended by Chapter 20, 2019 General Session

15A-3-304 Amendments to Chapter 4 of IPC.

(1) In IPC, Table 403.1, the following changes are made:

(a) In row number "3", for in the field for "OTHER", a new footnote h is added.

(b) In row number "5", for "Adult day care and child day care" occupancy, in the field for "OTHER", a new footnote h is added.

(c) Footnote f is deleted and replaced with the following: "FOOTNOTE f: The required number and type of plumbing fixtures for outdoor public swimming pools shall be in accordance with Utah Administrative Code, R392-302 Design, Construction and Operation of Public Pools."

(d) A new footnote g is added as follows: "FOOTNOTE: g: When provided, in public toilet facilities, there shall be an equal number of diaper changing facilities in male toilet rooms and female toilet rooms. Diaper changing facilities shall meet the requirements of ASTM F2285-04 (2010) Standard Consumer Safety Performance Specifications for Diaper Changing Tables for Commercial Use."

(e) A new footnote h is added to the table as follows: "FOOTNOTE h: Non-residential child care facilities shall comply with the additional sink requirements of Utah Administrative Code, R381-60-9, Hourly Child Care Centers, R381-70-9, Out of School Time Child Care Programs, and R381-100-9, Child Care Centers."

(2) A new IPC, Section 406.3, is added as follows: "406.3 Automatic clothes washer safe pans. Safe pans, when installed under automatic clothes washers, shall be installed in accordance with Section 504.7."

(3) A new IPC, Section 413.5, is added as follows: "413.5 Public toilet rooms. All public toilet rooms shall be equipped with at least one floor drain."

(4) A new IPC, Section 413.6, is added as follows: "Prohibition of motor vehicle waste disposal wells. New and existing motor vehicle waste disposal wells are prohibited. A motor vehicle waste disposal well associated with a single family residence is not subject to this prohibition."

(5) IPC, Section 423.3, is deleted.

Amended by Chapter 441, 2020 General Session

15A-3-305 Amendments to Chapter 5 of IPC.

(1) IPC, Section 502.4, is deleted and replaced with the following: "502.4 Seismic supports. As a minimum requirement, water heaters shall be anchored or strapped to resist horizontal displacement caused by earthquake motion. Strapping shall be at points within the upper one third and lower one-third of the appliance's vertical dimensions. "

(2) In IPC, Section 504.6, a new number 15 is added as follows: "15. Be installed in accordance with the manufacturer's installation instructions, not to exceed 180 degrees in directional change."

(3) In IPC, Section 504.7.2, the following is added at the end of the section: "When permitted by the code official, the pan drain may be directly connected to a soil stack, waste stack, or branch drain. The pan drain shall be individually trapped and vented as required in Section 907.1. The pan drain shall not be directly or indirectly connected to any vent. The trap shall be provided with a trap primer conforming to ASSE 1018 or ASSE 1044, a barrier type floor drain trap seal protection device meeting ASSE 1072, or a deep seal p-trap."

(4) A new IPC, Section 504.7.3, is added as follows: "504.7.3 Pan Designation. A water heater pan shall be considered an emergency receptor designated to receive the discharge of water from the water heater only and shall not receive the discharge from any other fixtures, devises, or equipment."

Amended by Chapter 20, 2019 General Session

15A-3-306 Amendments to Chapter 6 of IPC.

(1) IPC, Section 602.3, is deleted and replaced with the following: "602.3 Individual water supply. Where a potable public water supply is not available, individual sources of potable water supply shall be utilized provided that the source has been developed in accordance with Utah Code, Sections 73-3-1, 73-3-3, and 73-3-25, as administered by the Department of Natural Resources, Division of Water Rights. In addition, the quality of the water shall be approved by the local health department having jurisdiction. The source shall supply sufficient quantity of water to comply with the requirements of this chapter."

(2) IPC, Sections 602.3.1, 602.3.2, 602.3.3, 602.3.4, 602.3.5, and 602.3.5.1, are deleted.

(3) A new IPC, Section 604.4.1, is added as follows: "604.4.1 Manually operated metering faucets for food service establishments. Self closing or manually operated metering faucets shall provide a flow of water for at least 15 seconds without the need to reactivate the faucet."

(4) IPC, Section 606.5, is deleted and replaced with the following: "606.5 Water pressure booster systems. Water pressure booster systems shall be provided as required by Section 606.5.1 through 606.5.11."

(5) A new IPC, Section 606.5.11, is added as follows: "606.5.11 Prohibited installation. In no case shall a booster pump be allowed that will lower the pressure in the public main to less than the minimum water pressure specified in Utah Administrative Code R309-105-9."

(6) In IPC, Section 608.1, the words "and pollution" are added after the word "contamination."

(7) In IPC, Section 608.1, the following subsections are added as follows: "608.1.1 General Installation Criteria.

An assembly shall not be installed more than five feet above the floor unless a permanent platform is installed. The assembly owner, where necessary, shall provide devices or structures to facilitate testing, repair, and maintenance and to insure the safety of the backflow technician.

608.1.2 Specific Installation Criteria.

608.1.2.1 Reduced Pressure Principle ~~Blackflow~~ Backflow Prevention Assembly.

A reduced pressure principle backflow prevention assembly shall be installed as follows:

a. The assembly shall not be installed in a pit or below grade where the relief port could be submerged in water or where fumes could be present at the relief port discharge.
b. The relief valve of the assembly shall not be directly connected to a waste disposal line, including a sanitary sewer, storm drain, or vent.
c. The assembly shall be installed in a horizontal position, unless the assembly is listed or approved for vertical installation in accordance with Section 303.4.
d. The bottom of each assembly shall be installed a minimum of 12 inches above the ground or the floor.
e. The body of the assembly shall be a minimum of 12 inches from any wall, ceiling, or obstacle, and shall be readily accessible for testing, repair, and maintenance.

608.1.2.2 Double Check Valve Backflow Prevention Assembly.

A double check valve backflow prevention assembly shall be installed as follows:

a. The assembly shall be installed in a horizontal position unless the assembly is listed or approved for vertical installation.
b. The bottom of the assembly shall be a minimum of 12 inches above the ground or the floor.
c. The body of the assembly shall be a minimum of 12 inches from any wall, ceiling, or obstacle, and shall be readily accessible for testing, repair, and maintenance.
d. If installed in a pit, the assembly shall be installed with a minimum of 12 inches of clearance around all sides of the vault, including the floor and roof or ceiling, with adequate room for testing and maintenance.

608.1.2.3 Pressure Vacuum Breaker Assembly and Spill Resistant Pressure Vacuum Breaker Assembly.

A pressure vacuum breaker assembly and spill resistant pressure vacuum breaker assembly shall be installed as follows:

a. The assembly shall not be installed in an area that could be subject to backpressure or back drainage conditions.
b. The assembly shall be installed a minimum of 12 inches above all downstream piping and the highest point of use.
c. The assembly shall be a minimum of 12 inches from any wall, ceiling, or obstacle, and shall be readily accessible for testing, repair, and maintenance.
d. The assembly shall not be installed below ground or in a vault or pit.
e. The assembly shall be installed in a vertical position."

(8) In IPC, Section 608.3, the word "and" before the word "contamination" is deleted and replaced with a comma and the words " or pollution" are added after the word "contamination" in the first sentence.

(9) In IPC, Section 608.6, the words "with the potential to create a condition of either contamination or pollution or" are added after the word "substances."

(10) In IPC, Section 608.7, the following sentence is added at the end of the paragraph: "Any connection between potable water piping and sewer-connected waste shall be protected by an air gap in accordance with Section 608.14.1."
(11) IPC, Section 608.8, is deleted and replaced with the following: " 608.8 Stop and Waste Valves installed below grade. Combination stop-and-waste valves shall be permitted to be installed underground or below grade. Freeze proof yard hydrants that drain the riser into the ground are considered to be stop-and-waste valves and shall be permitted. A stop-and-waste valve shall be installed in accordance with a manufacturer's recommended installation instructions."
(12) IPC, Section 608.14.3, is deleted and replaced with the following: " 608.14.3 Backflow preventer with intermediate atmospheric vent. Backflow preventers with intermediate atmospheric vents shall conform to ASSE 1012 or CSA CAN/CSA-B64.3. These devices shall be permitted to be installed on residential boilers, without chemical treatment, where subject to continuous pressure conditions, and humidifiers in accordance with Section 608.17.10. The relief opening shall discharge by air gap and shall be prevented from being submerged."
(13) IPC, Section 608.14.4, is deleted.
(14) IPC, Section 608.16.3, is deleted and replaced with the following: " 608.16.3 Protection by a backflow preventer with intermediate atmospheric vent. Connections to residential boilers only, without chemical treatment, and humidifiers shall be protected by a backflow preventer with an intermediate atmospheric vent."
(15) IPC, Section 608.16.4, is deleted and replaced with the following: " 608.16.4 Protection by a vacuum breaker. Openings and outlets shall be protected by atmospheric-type or pressure type vacuum breakers. Vacuum breakers shall not be installed under exhaust hoods or similar locations that will contain toxic fumes or vapors. Fill valves shall be set in accordance with Section 425.3.1. Atmospheric Vacuum Breakers - The critical level of the atmospheric vacuum breaker shall be set a minimum of 6 inches (152 mm) above the flood level rim of the fixture or device. Pipe-applied vacuum breakers shall be installed not less than 6 inches (152 mm) above the flood level rim of the fixture, receptor, or device served. No valves shall be installed downstream of the atmospheric vacuum breaker. The atmospheric vacuum breaker shall not be installed where it may be subjected to continuous pressure for more than 12 consecutive hours at any time. Pressure Vacuum Breaker - The critical level of the pressure vacuum breaker shall be set a minimum of 12 inches (304 mm) above the flood level of the fixture or device."
(16) In IPC, Section 608.16.4.2, the following is added after the first sentence: "Add-on-backflow prevention devices shall be non-removable. In climates where freezing temperatures occur, a listed self-draining frost proof hose bibb with an integral backflow preventer shall be used."
(17) In IPC, Section 608.17.1.2, the words "or ASSE 1024" are deleted.
(18) IPC, Section 608.17.2, is deleted and replaced as follows: " 608.17.2 Connections to boilers. The potable supply to a boiler shall be protected by an air gap or a reduced pressure principle backflow preventer, complying with ASSE 1013, CSA B64.4 or AWWA C511.
Exception: The potable supply to a residential boiler without chemical treatment may be equipped with a backflow preventer with an intermediate atmospheric vent complying with ASSE 1012 or CSA CAN/CSA-B64.3."
(19) In IPC, Section 608.17.4.1, a new exception is added as follows: "Exception: All class 1 and2 systems containing chemical additives consisting of strictly glycerine (C.P. or U.S.P. 96.5 percent grade) or propylene glycol shall be protected against backflow with a double check

valve assembly. Such systems shall include written certification of the chemical additives at the time of original installation and service or maintenance."

(20) IPC, Section 608.17.7, is deleted and replaced with the following: " 608.17.7 Chemical dispensers. Where chemical dispensers connect to the water distribution system, the water supply system shall be protected against backflow in accordance with Section 608.14.1, Section 608.14.2, Section 608.14.5, Section 608.14.6 or Section 608.14.8. Installation shall be in accordance with Section 608.1.2. Chemical dispensers shall connect to a separate dedicated water supply line, and not a sink faucet."

(21) IPC, Section 608.17.8, is deleted and replaced with the following: " 608.17.8 Portable cleaning equipment. Where the portable cleaning equipment connects to the water distribution system, the water supply system shall be protected against backflow in accordance with Section 608.14.1 or Section 608.14.2."

(22) A new IPC, Section 608.17.11, is added as follows: " 608.17.11 Automatic and coin operated car washes. The water supply to an automatic or coin operated car wash shall be protected in accordance with Section 608.14.1 or Section 608.14.2."

(23) IPC, Section 608.18, is deleted and replaced with the following: " 608.18 Protection of individual water supplies. See Section 602.3 for requirements." Amended by Chapter 20, 2019 General Session

15A-3-307 Amendments to Chapter 7 of IPC.

(1) IPC, Section 701.2, is deleted and replaced with the following: "701.2 Sewer required. Every building in which plumbing fixtures are installed and all premises having drainage piping shall be connected to a public sewer where the sewer is accessible and is within 300 feet of the property line in accordance with Utah Code, Section 10-8-38; or an approved private sewage disposal system in accordance with Utah Administrative Code, Rule R317-4, as administered by the Department of Environmental Quality, Division of Water Quality."

(2) A new IPC Section 701.8 is added as follows: "701.8 Drainage piping in food service areas. Exposed soil or waste piping shall not be installed above any working, storage, or eating surfaces in food service establishments."

(3) In IPC, Section 712.3.3.1, the following words are added after the word "PE": "stainless steel, cast iron, galvanized steel, brass,".

Amended by Chapter 20, 2019 General Session

15A-3-308 Amendments to Chapter 8 of IPC.

In IPC, Section 802.1.1, the last sentence is deleted.

Amended by Chapter 249, 2016 General Session

15A-3-309 Amendments to Chapter 9 of IPC.

(1) In IPC, Section 903.1, when the number of inches is to be specified, "12 inches (304.8mm)" is inserted.

(2) In IPC, Section 903.6, the following sentence is added at the end of the paragraph: "Vents extending through the wall shall terminate not less than 12 inches from the wall with an elbow pointing downward."

(3) In IPC, Section 905.4, the following sentence is added at the end of the paragraph: "Horizontal dry vents below the flood level rim shall be permitted for floor drain, floor sink, and bath tub installations when installed in accordance with Sections 702.2, 905.2 and 905.3 and provided with a wall clean out."

Amended by Chapter 297, 2013 General Session

15A-3-310 Amendments to Chapter 10 of IPC.

In IPC, Section 1003.3.8, the word "gravity" is inserted before the word "grease."

Amended by Chapter 20, 2019 General Session

15A-3-311 Amendments to Chapter 11 of IPC.

(1) A new IPC, Section 1106.1.1, is added as follows:

"1106.1.1 Alternate Methods.

An approved alternate storm drain sizing method may be allowed."

(2) IPC, Section 1109, is deleted.

Amended by Chapter 249, 2016 General Session

15A-3-312 Amendments to Chapter 12 of IPC.

IPC, Chapter 12, is not amended.

Enacted by Chapter 14, 2011 General Session

15A-3-313 Amendments to Chapter 13 of IPC.

(1) A new IPC, Section 1301.4.1, is added as follows:

"1301.4.1 Recording.

The existence of a non potable water system shall be recorded on the deed of ownership for the property. The certificate of occupancy shall not be issued until the documentation for the recording required under this section is completed by the property owner."

(2) IPC, Section 1301.5, is deleted and replaced with the following:

"1301.5 Potable water connections.

Where a potable water system is connected to a non potable water system, the potable water supply shall be protected against backflow by a reduced pressure backflow prevention assembly or an air gap installed in accordance with Section 608."

(3) IPC, Section 1301.9.4, is deleted and replaced with the following:

" 1301.9.4 Makeup water.

Where an uninterrupted supply is required for the intended application, potable or reclaimed water shall be provided as a source of makeup water for the storage tank. The makeup water supply shall be protected against backflow by a reduced pressure backflow prevention assembly or an air gap installed in accordance with Section 608. A full-open valve located on the makeup water supply line to the storage tank shall be provided. Inlets to the storage tank shall be controlled by fill valves or other automatic supply valves installed to prevent the tank from overflowing and to prevent the water level from dropping below a predetermined

point. Where makeup water is provided, the water level shall not be permitted to drop below the source water inlet or the intake of any attached pump."

(4) IPC, Section 1302.12.4, is deleted and replaced with the following:
"1302.12.4 Inspection and testing of backflow prevention assemblies.
Testing of a backflow preventer shall be conducted in accordance with Sections 312.10.1, 312.10.2, and 312.10.3."

(5) IPC, Section 1303.15.6, is deleted and replaced with the following:
"1303.15.6 Inspection and testing of backflow prevention assemblies.
Testing of a backflow prevention assembly shall be conducted in accordance with Sections 312.10.1, 312.10.2, and 312.10.3."

(6) IPC, Section 1304.4.2, is deleted and replaced with the following:
"1304.4.2 Inspection and testing of backflow prevention assemblies.
Testing of a backflow preventer or backwater valve shall be conducted in accordance with Sections 312.10.1, 312.10.2, and 312.10.3."

Amended by Chapter 441, 2020 General Session

15A-3-314 Amendments to Chapter 14 of IPC.

IPC, Chapter 14, is deleted and replaced with the following:
"1401. Subsurface Landscape Irrigation Systems.
Graywater recycling systems utilized for subsurface irrigation for single-family residences shall comply with the requirements of UAC R317-401, Graywater Systems. Graywater recycling systems utilized for subsurface irrigation for other occupancies shall comply with UAC R317-3, Design Requirements for Wastewater Collection, Treatment, and Disposal Systems, and UAC R317-4, Onsite Wastewater Systems."

Amended by Chapter 20, 2019 General Session

15A-3-315 Amendments to Chapter 15 of IPC.

In IPC, Chapter 15, the following referenced standard is added:

"Standard reference number	Title	Referenced in code section number
USC-FCCCHR 10th Edition Manual of Cross Connection Control	Foundation for Cross-Connection Control and Hydraulic Research University of Southern California Kaprielian Hall 300 Los Angeles CA 90089-2531	Table 608.1"

Enacted by Chapter 249, 2016 General Session

Part 4 Statewide Amendments to International Mechanical Code

15A-3-401 General provisions.

(1) The amendments in this part are adopted as amendments to the IMC to be applicable statewide.

(2) In IMC, Section 1004.2, the first sentence is deleted and replaced with the following: "In accordance with Title 34A, Chapter 7, Safety, and requirements made by rule by the Labor Commission, boilers and pressure vessels in Utah are regulated by the Utah Labor Commission, Division of Boiler, Elevator and Coal Mine Safety, except those located in private residences or in apartment houses of less than five family units. Boilers shall be installed in accordance with their listing and labeling, with minimum clearances as prescribed by the manufacturer's installation instructions and the state boiler code, whichever is greater."
(3) In IMC, Section 1004.3.1, the word "unlisted" is inserted before the word "boilers".
(4) In IMC, Section 1209.3, the following words are added at the end of the section: "or other methods approved for the application."

Amended by Chapter 20, 2019 General Session

15A-3-402 Amendments to Chapters 1 through 5 of IMC.

(1) In IMC, Table 403.3.1.1, note h is deleted and replaced with the following:
"h. 1. A nail salon shall provide each manicure station where a nail technician files or shapes an acrylic nail, as defined by rule by the Division of Occupational and Professional Licensing, in accordance with Title 63G, Chapter 3, Utah Administrative Rulemaking Act, with:
a. a source capture system equipped with, at minimum, a MERV 8 particulate filter and an activated carbon filter that is capable of filtering and recirculating air to inside space at a rate not less than 50 cfm per station; or
b. a source capture system capable of exhausting not less than 50 cfm per station.
c. A nail salon that complies with Note h.l.a or h.l.b is not required to comply with the labeling, listing, or testing requirements described in International Mechanical Code sections 301.7 or 301.8.
2. For a source capture system described in paragraph 1, the source capture system inlets for exhausting or recirculating air shall be located in accordance with Section 502.20.
3. Where one or more exhausting source capture systems described in paragraph 1 operate continuously during occupancy, the source capture system exhaust rate shall be permitted to be applied to the exhaust flow rate required by Table 403.3.1.1 for the nail salon.
4. The requirements of this note apply to:
a. an existing nail salon that remodels the nail salon after July 1, 2017;
b. a new nail salon that begins construction after July 1, 2017; and
c. all nail salons beginning on July 1, 2020."

(2) In IMC, Section 502.20 is deleted and rewritten as follows:
"502.20 Manicure stations. A nail salon that files or shapes an acrylic nail shall provide each manicure station with a source capture system in accordance with Table 403.3.1.1, note h. For a manicure table that does not have factory-installed source capture system inlets for recirculating or exhausting air, a nail salon shall provide the manicure table with inlets for recirculating or exhausting air located not more than 12 inches (305 mm) horizontally and vertically from the point of any acrylic chemical application. Exception: Section 502.20 applies to a manicure station in:
a. an existing nail salon that remodels the nail salon after July 1, 2017;
b. a new nail salon that begins construction after July 1, 2017; and

c. all nail salons beginning on July 1, 2020."

(3) In IMC, Section 908.1 the following words are added at the end of the last sentence: "or UL/CSA 60335-2-40."

(4) In IMC, Section 918.1 the following words are added after "1995": "or UL/CSA60335-2-40".

(5) In IMC, Section 918.2 the following words are added at the end of the sentence: "or UL/CSA 60335-2-40".

(6) In IMC, Section 1101.2 the word "or" is deleted and the following is added at the end of the first sentence: or UL/CSA 60335-2-40.

(7) In IMC, Section 1101.6 the following is added at the end: "High probability systems utilizing A2L refrigerants shall comply with ASHRAE 15.

(8) IMC Chapter 15 Reference Standards is amended as follows:

(a) ASHRAE 15-2013 is changed to 15-2019

(b) ASHRAE 34-2013 is changed to 34-2019

(c) The following standards are added:

CSA C22.2 No. 60335-2-40-2019	Household and Similar Electrical Applicances Safety – Part 2-40: Particular Requirements for Electrical Heat Pumps, Air-Conditioners and Dehumidifiers – 3rd Edition
UL 60335-2-40 2019	Household and Similar Electrical Appliances - Safety- Part 3-40. Prticular Requirements for Electrical Heat Pumps, Air-Conditioners and Dehuiditiers- 3rd Edition

Amended by Chapter 441, 2020 General Session

Part 5
Statewide Amendments to International Fuel Gas Code

15A-3-501 General provisions.

The following are adopted as an amendment to the IFGC to be applicable statewide:

(1) In IFGC, Section 404.9, a new Section 404.9.1, is added as follows: "404.9.1 Meter protection. Fuel gas services shall be in an approved location and/or provided with structures designed to protect the fuel gas meter and surrounding piping from physical damage, including falling, moving, or migrating ice and snow. If an added structure is used, it must still provide access for service and comply with the IBC or the IRC."

(2) IFGC, Section 409.5.3, is deleted.

(3) In IFGC, Section 502.1, the last sentence is deleted and replaced with "Plastic vents for Category IV appliances shall not be required to be listed and labeled where such vents comply with all of the following:
   1. specified by the appliance manufacturer;
   2. installed in accordance with the appliance manufacturer's instructions; and
   3. the vent gas temperatures do not exceed 140 degrees Fahrenheit."

(4) In IFGC, Section 503.4.1, in the last sentence after "appliance manufacturer" insert: "where the appliance vent gas temperatures do not exceed 140 degrees Fahrenheit,".

(5) In IFGC, Section 503.6.11.1, the following exception is added:
"Exception: Existing and replacement Category I appliances may be located in rooms within the occupiable space provided all the following are met:
   1. The original installation was compliant with existing codes at the time of installation.
   2. The dwelling is equipped with a current, operable carbon monoxide detector, installed in accordance with Section 915 of the International Building Code.
   3. The AHJ has approved a replacement based on the extreme difficulty of an installing individual Category I vent system or a direct vent Category IV appliance.
   4. The room or space is used for no other purpose.
   5. Combustion air is provided in accordance with Section 304. Where outdoor combustion air is provided, the room has a solid weather-stripped door equipped with an approved self-closure device.
   6. Common vents terminate with a listed cap."

(6) In IFGC, Section 631.2, the following sentence is inserted before the first sentence: "In accordance with Title 34A, Chapter 7, Safety, and requirements made by rule by the Labor Commission, boilers and pressure vessels in Utah are regulated by the Utah Labor Commission, Division of Boiler, Elevator and Coal Mine Safety, except those located in private residences or in apartment houses of less than five family units. Boilers shall be installed in accordance with their listing and labeling, with minimum clearances as prescribed by the manufacturer's installation instructions and the state boiler code, whichever is greater." Amended by Chapter 20, 2019 General Session

Part 6
Statewide Amendments to National Electrical Code

15A-3-601 General provisions.

The following are adopted as amendments to the NEC to be applicable statewide:

(1) The IRC provisions are adopted as the residential electrical standards applicable to residential installations under the IRC. All other installations shall comply with the adopted NEC.

(2) In NEC, Section 210.8(B), the words "and three phase receptacles rated 150 volts to ground or less, 100 amperes or less" are deleted.

(3) NEC, Section 210.71, is deleted.

(4) In NEC, Section 240.67, the words "January 1, 2020" are deleted and replaced with "upon adoption of the 2020 NEC".

Amended by Chapter 186, 2018 General Session

Part 7
Statewide Amendments to International Energy Conservation Code

15A-3-701 General provisions.

The following is adopted as an amendment to the IECC to be applicable statewide:

(1) In IECC, Section C403.11.2.3, the words "by the designer" are deleted.

(2) In IECC, Section R103.2, all words after the words "herein governed." are deleted and replaced with the following: "Construction documents include all documentation required to be submitted in order to issue a building permit."

(3) In IECC, Section R303.3, all wording after the first sentence is deleted.

(4) In IECC, Section R401.2, a new number 4 is added as follows:

"4. Compliance may be shown by demonstrating a result, using the software RES Check 2012 Utah Energy Conservation Code, of:

(a) on or after January 1, 2017, and before January 1, 2019, "3 percent better than code";

(b) on or after January 1, 2019, and before January 1, 2021, "4 percent better than code";

and(c) after January 1, 2021, "5 percent better than code"."

(5) In IECC, Table R402.2, in the column entitled MASS WALL R-VALUE, a new footnote j is added as follows:

"j. Log walls complying with ICC400 and with a minimum average wall thickness of 5 inches or greater shall be permitted in Zones 5 through 8 when overall window glazing has a .31 U-factor or lower, minimum heating equipment efficiency is, for gas, 90 AFUE, or, for oil, 84 AFUE, and all other component requirements are met."

(6) In IECC, Section R402.4.1, in the first sentence, the word "and" is deleted and replaced with the word "or".

(7) In IECC, Section R402.4.1.1, the last sentence is deleted and replaced with the following: "Where allowed by the code official, the builder may certify compliance to components criteria for items which may not be inspected during regularly scheduled inspections."

(8) In IECC, Section R402.4.1.2, the following changes are made:

(a) In the first sentence:

(i) "The building or dwelling unit" is deleted and replaced with "A single-family dwelling";

(ii) after January 1, 2019, replace the word "five" with "3.5"; and

(iii) the words "in Climate Zones 1 and 2, and three air changes per hour in Climate Zones 3 through 8" are deleted.

(b) The following sentence is inserted after the first sentence: "A multi-family dwelling and townhouse shall be tested and verified as having an air leakage rate of not exceeding five air changes per hour."
(c) In the third sentence, the word "third" is deleted.
(d) The following sentence is inserted after the third sentence: "The following parties shall be approved to conduct testing: Parties certified by BPI or RESNET, or licensed contractors who have completed training provided by Blower Door Test equipment manufacturers or other comparable training."

(9) In IECC, Section R403.3.3:
(a) the exception for duct air leakage testing is deleted; and
(b) the exception for duct air leakage is replaced:
(i) on or after January 1, 2017, and before January 1, 2019, with the following: "Exception: The total leakage test is not required for systems with all air handlers and at least 65% of all ducts (measured by length) located entirely within the building thermal envelope.";
(ii) on or after January 1, 2019, and before January 1, 2021, with the following: "Exception: The duct air leakage test is not required for systems with all air handlers and at least 75% of all ducts (measured by length) located entirely within the building thermal envelope."; and
(iii) on or after January 1, 2021, with the following: "Exception: The duct air leakage test is not required for systems with all air handlers and at least 80% of all ducts (measured by length) located entirely within the building thermal envelope."

(10) In IECC, Section R403.3.3, the following is added after the exception:
"The following parties shall be approved to conduct testing:
1. Parties certified by BPI or RESNET.
2. Licensed contractors who have completed training provided by Duct Test equipment manufacturers or other comparable training."

(11) In IECC, Section R403.3.4:
(a) in Subsection 1, the number 4 is changed to 8, the number 113.3 is changed to 170, the number 3 is changed to 6, and the number 85 is changed to 114.6; and (b) in Subsection 2:
(i) on or after January 1, 2017, and before January 1, 2019, the number 4 is changed to 8 and the number 113.3 is changed to 226.5;
(ii) on or after January 1, 2019, and before January 1, 2021, the number 4 is changed to 7 and the number 113.3 is changed to 198.2; and
(iii) on or after January 1, 2021, the number 4 is changed to 6 and the number 113.3 is changed to 169.9.

(12) In IECC, Section R403.3.5, the words "or plenums" are deleted.
(13) In IECC, Section R403.5.3, Subsection 5 is deleted and Subsections 6 and 7 are renumbered.
(14) IECC, Section R403.6.1, is deleted and replaced with the following: "R403.6.1 Whole-house mechanical ventilation system fan efficacy. Fans used to provide whole-house mechanical ventilation shall meet the efficacy requirements of Table R403.6.1.
Exception: Where an air handler that is integral to tested and listed HVAC equipment is used to provide whole-house mechanical ventilation, the air handler shall be powered by an electronically commutated motor."
(15) In IECC, Section R403.6.1, the table is deleted and replaced with the following:

TABLE R403.6.1

MECHANICAL VENTILATION SYSTEM FAN EFFICACY

FAN LOCATION	AIR FLOW RATE MINIMUM (CFM)	MINIMUM EFFICACY (CFM/WATT)	AIR FLOW RATE MAXIMUM (CFM)
HRV or ERV	Any	1.2 cfm/watt	Any
Range hoods	Any	2.8 cfm/watt	Any
In-line fan	Any	2.8 cfm/watt	Any
Bathroom, utility room	10	1.4 cfm/watt	<90
Bathroom, utility room	90	2.8 cfm/watt	Any

(16) In IECC, Section R406.4, the table is deleted and replaced with the following:

TABLE R406.4

MAXIMUM ENERGY RATING INDEX

CLIMATE ZONE	ENERGY RATING INDEX
3 65 5 69	
6	68

Amended by Chapter 20, 2019 General Session

Part 8
Statewide Amendments to International Existing Building Code

15A-3-801 General provisions.

The following are adopted as amendments to the IEBC and are applicable statewide:

(1) In Section 202, the following definition is added: "BUILDING OFFICIAL. See Code Official."

(2) In Section 202, the definition for "code official" is deleted and replaced with the following: "CODE OFFICIAL. The officer or other designated authority having jurisdiction (AHJ) charged with the administration and enforcement of this code."

(3) In Section 202, the definition for existing buildings is deleted and replaced with the following: "EXISTING BUILDING. A building that is not a dangerous building and that was either lawfully erected under a prior adopted code, or deemed a legal non-conforming building by the code official."

(4) In Section 301.3, the exception is deleted.

(5) In Section 305.4.2, number 7 is added after number 6 as follows: "7. When a change of occupancy in a building or portion of a building results in a Group R-2 occupancy, not less than 20% of the dwelling or sleeping units shall be Type-B dwelling or sleeping units. These dwelling or sleeping units may be located on any floor of the building provided with an accessible route. Two percent, but not less than one unit, of the dwelling or sleeping units shall be Type-A dwelling units."

(6) Section 503.6 is deleted and replaced with the following:
"503.6 Bracing for unreinforced masonry parapets and other appendages upon reroofing. Where the intended alteration requires a permit for reroofing and involves removal of roofing materials from more than 25% of the roof area of a building assigned to Seismic Design Category D, E, or F that has parapets constructed of unreinforced masonry or appendages such as cornices, spires, towers, tanks, signs, statuary, etc., the work shall include installation of bracing to resist out-of-plane seismic forces, unless an evaluation demonstrates compliance of such items. Reduced seismic forces are permitted for design purposes."
(7) In Section 705.1, Exception number 3, the following is added at the end of the exception: "This exception does not apply if the existing facility is undergoing a change of occupancy classification."
(8) Section 706.3.1 is deleted and replaced with the following:
"706.3.1 Bracing for unreinforced masonry bearing wall parapets and other appendages. Where a permit is issued for reroofing more than 25 percent of the roof area of a building assigned to Seismic Design Category D, E, or F that has parapets constructed of unreinforced masonry or appendages such as cornices, spires, towers, tanks, signs, statuary, etc., the work shall include installation of bracing to resist the reduced International Building Code level seismic forces as specified in Section 303 of this code unless an evaluation demonstrates compliance of such items."
(9) Section 906.6 is deleted and replaced with the following:
"906.6 Bracing for unreinforced masonry parapets and other appendages upon reroofing. Where the intended alteration requires a permit for reroofing and involves removal of roofing materials from more than 25% of the roof area of a building assigned to Seismic Design Category D, E, or F that has parapets constructed of unreinforced masonry or appendages such as cornices, spires, towers, tanks, signs, statuary, etc., the work shall include installation of bracing to resist out-of-plane seismic forces, unless an evaluation demonstrates compliance with such items. Reduced seismic forces are permitted for design purposes."
(10)
(a) Section 1006.3 is deleted and replaced with the following:
"1006.3 Seismic Loads. Where a change of occupancy results in a building being assigned to a higher risk category, or when a change of occupancy results in a design occupant load increase of 100% or more, the building shall satisfy the requirements of
Section 1613 of the International Building Code using full seismic forces." (b)
Section 1006.3, exceptions 1 through 3 remain unchanged.
(c) In Section 1006.3, add a new exception 4 as follows:
"4. Where the design occupant load increase is less than 25 occupants and the occupancy category does not change."
(11) In Section 1012.7.3, exception 2 is deleted.

Amended by Chapter 441, 2020 General Session

Part 9
Installation and Safety Requirements for Mobile Homes Built Before June 15, 1976

15A-3-901 General provisions.

Mobile homes built before June 15, 1976, that are subject to relocation, building alteration, remodeling, or rehabilitation shall comply with the following:

(1) Related to exits and egress windows:

(a) Egress windows. The home has at least one egress window in each bedroom, or a window that meets the minimum specifications of the United States Department of Housing and Urban Development's (HUD) Manufactured Homes Construction and Safety Standards (MHCSS) program as set forth in 24 C.F.R. Parts 3280 and 3282, MHCSS 3280.106 and 3280.404 for manufactured homes. These standards require the window to be at least 22 inches in the horizontal or vertical position in its least dimension and at least five square feet in area. The bottom of the window opening shall be no more than 36 inches above the floor, and the locks and latches and any window screen or storm window devices that need to be operated to permit exiting shall not be located more than 54 inches above the finished floor.

(b) Exits. The home is required to have two exterior exit doors, located remotely from each other, as required in MHCSS 3280.105. This standard requires that a single-section home have the doors no less than 12 feet, center-to-center, from each other, and a multi section home have the doors no less than 20 feet, center-to-center, from each other, when measured in a straight line, regardless of the length of the path of travel between the doors. One of the required exit doors must be accessible from the doorway of each bedroom and no more than 35 feet away from any bedroom doorway. An exterior swing door shall have a 28-inch-wide by 74-inchhigh clear opening and sliding glass doors shall have a 28-inch-wide by 72-inch-high clear opening. Each exterior door other than screen/storm doors shall have a key-operated lock that has a passage latch; locks shall not require the use of a key or special tool for operation from the inside of the home.

(2) Related to flame spread:

(a) Walls, ceilings, and doors. Walls and ceilings adjacent to or enclosing a furnace or water heater shall have an interior finish with a flame-spread rating not exceeding 25. Sealants and other trim materials two inches or less in width used to finish adjacent surfaces within these spaces are exempt from this provision, provided all joints are supported by framing members or materials with a flame spread rating of 25 or less. Combustible doors providing interior or exterior access to furnace and water heater spaces shall be covered with materials of limited combustibility (i.e., 5/16-inch gypsum board, etc.), with the surface allowed to be interrupted for louvers ventilating the space. However, the louvers shall not be of materials of greater combustibility than the door itself (i.e., plastic louvers on a wooden door). Reference MHCSS 3280.203.

(b) Exposed interior finishes. Exposed interior finishes adjacent to the cooking range (surfaces include vertical surfaces between the range top and overhead cabinets, the ceiling, or both) shall have a flame-spread rating not exceeding 50, as required by MHCSS 3280.203. Backsplashes not exceeding six inches in height are exempted. Ranges shall have a vertical clearance above the cooking top of not less than 24 inches to the bottom of combustible cabinets, as required by MHCSS 3280.204(e).

(3) Related to smoke detectors:

(a) Location. A smoke detector shall be installed on any ceiling or wall in the hallway or space communicating with each bedroom area between the living area and the first bedroom door, unless a door separates the living area from that bedroom area, in which case the detector shall be installed on the living-area side, as close to the door as practicable, as required by MHCSS 3280.208. Homes with bedroom areas separated by any one or

combination of common-use areas such as a kitchen, dining room, living room, or family room (but not a bathroom or utility room) shall be required to have one detector for each bedroom area. When located in the hallways, the detector shall be between the return air intake and the living areas.

(b) Switches and electrical connections. Smoke detectors shall have no switches in the circuit to the detector between the overcurrent protection device protecting the branch circuit and the detector. The detector shall be attached to an electrical outlet box and connected by a permanent wiring method to a general electrical circuit. The detector shall not be placed on the same branch circuit or any circuit protected by a ground-fault circuit interrupter.

(4) Related to solid-fuel-burning stoves/fireplaces:

(a) Solid-fuel-burning fireplaces and fireplace stoves. Solid-fuel-burning, factory-built fireplaces and fireplace stoves may be used in manufactured homes, provided that they are listed for use in manufactured homes and installed according to their listing/manufacturer's instructions and the minimum requirements of MHCSS 3280.709(g).

(b) Equipment. A solid-fuel-burning fireplace or fireplace stove shall be equipped with an integral door or shutters designed to close the fire chamber opening and shall include complete means for venting through the roof, a combustion air inlet, a hearth extension, and means to securely attach the unit to the manufactured home structure.

(i) Chimney. A listed, factory-built chimney designed to be attached directly to the fireplace/fireplace stove and equipped with, in accordance with the listing, a termination device and spark arrester shall be required. The chimney shall extend at least three feet above the part of the roof through which it passes and at least two feet above the highest elevation of any part of the manufactured home that is within 10 feet of the chimney.

(ii) Air-intake assembly and combustion-air inlet. An air-intake assembly shall be installed in accordance with the terms of listings and the manufacturer's instruction. A combustion air inlet shall conduct the air directly into the fire chamber and shall be designed to prevent material from the hearth from dropping on the area beneath the manufactured home.

(iii) Hearth. The hearth extension shall be of noncombustible material that is a minimum of 3/8inch thick and shall extend a minimum of 16 inches in front and eight inches beyond each side of the fireplace/fireplace stove opening. The hearth shall also extend over the entire surface beneath a fireplace stove and beneath an elevated and overhanging fireplace.

(5) Related to electrical wiring systems:

(a) Testing. All electrical systems shall be tested for continuity, in accordance with MHCSS3280.810, to ensure that metallic parts are properly bonded; tested for operation, to demonstrate that all equipment is connected and in working order; and given a polarity check, to determine that connections are proper.

(b) 5.2 Protection. The electrical system shall be properly protected for the required amperage load. If the unit wiring employs aluminum conductors, all receptacles and switches rated at 20 amperes or less that are directly connected to the aluminum conductors shall be marked CO/ALA. Exterior receptacles, other than heat tape receptacles, shall be of the ground-fault circuit interrupter (GFCI) type. Conductors of dissimilar metals (copper/aluminum or copper clad aluminum) must be connected in accordance with NEC, Section 110-14.

(6) Related to replacement furnaces and water heaters:

(a) Listing. Replacement furnaces or water heaters shall be listed for use in a manufactured home. Vents, roof jacks, and chimneys necessary for the installation shall be listed for use with the furnace or water heater.
(b) Securement and accessibility. The furnace and water heater shall be secured in place to avoid displacement. Every furnace and water heater shall be accessible for servicing, for replacement, or both as required by MHCSS 3280.709(a).
(c) Installation. Furnaces and water heaters shall be installed to provide complete separation of the combustion system from the interior atmosphere of the manufactured home, as required by MHCSS.
(i) Separation. The required separation may be achieved by the installation of a direct-vent system (sealed combustion system) furnace or water heater or the installation of furnace and water heater venting and combustion systems from the interior atmosphere of the home. There shall be no doors, grills, removable access panels, or other openings into the enclosure from the inside of the manufactured home. All openings for ducts, piping, wiring, etc., shall be sealed.
(ii) Water heater. The floor area in the area of the water heater shall be free from damage from moisture to ensure that the floor will support the weight of the water heater. Enacted by Chapter 249, 2016 General Session

Part 10 Statewide Amendments to International Swimming Pool and Spa Code

15A-3-1001 General provisions.

(1) In ISPSC, Section 202, the following definition is added for private residential swimming pool: "PRIVATE RESIDENTIAL SWIMMING POOL. A swimming pool, spa pool, or wading pool used only by an individual, family, or living unit members and guests, but not serving any type of multiple unit housing complex of four or more living units."
(2) In ISPSC, Section 320.1, the following changes are made:
(a) the words "or storm" are deleted;
(b) the words "onsite waste water" are added before the word "disposal"; and
(c) the words "or shall be disposed of by other means approved by the state or local authority" are deleted.

Enacted by Chapter 441, 2020 General Session

Chapter 4 Local Amendments Incorporated as Part of State Construction Code

Part 1 Local Amendments to International Building Code

15A-4-101 General provision.

The amendments in this part are adopted as amendments to the IBC to be applicable to the specified jurisdiction.

Enacted by Chapter 14, 2011 General Session

15A-4-105 Amendments to IBC applicable to Park City Corporation or Park City Fire District.

(1) The following amendment is adopted as an amendment to the IBC for the Park City Corporation, in IBC, Section 3409.2, exception 3, is modified to read as follows: "3. Designated as historic under a state or local historic preservation program."

(2) The following amendments are adopted as amendments to the IBC for the Park City Corporation and Park City Fire District:

(a) IBC, Section (F)903.2, is deleted and replaced with the following: "(F)903.2 Where required. Approved automatic sprinkler systems in new buildings and structures shall be provided in the location described in this section.

1. All new construction having more than 6,000 square feet on any one floor, except R-3 occupancy.
2. All new construction having more than two (2) stories, except R-3 occupancy.
3. All new construction in the Historic Commercial Business zone district, regardless of occupancy.
4. All new construction and buildings in the General Commercial zone district where there are side yard setbacks or where one or more side yard setbacks is less than two and one half (2.5) feet per story of height.
5. All existing building within the Historic District Commercial Business zone."; and

(b) In IBC, Table 1505.1, new footnotes d and e are added as follows:

d. Wood roof covering assemblies are prohibited in R-3 occupancies in areas with a combined rating of more than 11 using Tables 1505.1.1 and 1505.1.2 with a score of 9 for weather factors.

e. Wood roof covering assemblies shall have a Class A rating in occupancies other than R-3 in areas with a combined rating of more than 11 using Tables 1505.1.1 and 1505.1.2 with a score of 9 for weather factors. The owner of the building shall enter into a written and recorded agreement that the Class A rating of the roof covering assembly will not be altered through any type of maintenance process.

TABLE 1505.1.1

WILDFIRE HAZARD SEVERITY SCALE

RATING	SLOPE	VEGETATION
1.	less than or equal to 10%	Pinion-juniper
2.	10.1 - 20%	Grass-sagebrush
3.	greater than 20%	Mountain brush or softwoods

TABLE 1505.1.2

PROHI BITION/ALLOWANCE OF WOOD ROOFING

Rating	R-3 Occupancy	All Other Occupancies
Less than or equal to 11	Wood roof covering assemblies per Table 1505.1 are allowed	Wood roof covering assemblies per Table 1505.1 are allowed

Greater than or equal to 12	Wood roof covering is prohibited	Wood roof covering assemblies with a Class A rating are allowed"

Amended by Chapter 341, 2017 General Session

15A-4-106 Amendments to IBC applicable to Salt Lake City.

The following amendment is adopted as an amendment to the IBC for Salt Lake City, in IBC, Section 1008.1.9.7, a new exception is added as follows: "Exception: In International Airport areas designated as Group "A" Occupancies where national security interests are present, the use of panic hardware with delayed egress is allowed when all provisions of Section 1008.1.9.7 are met and under item #4 1 second is changed to 2 seconds."

Enacted by Chapter 14, 2011 General Session

15A-4-107 Amendments to IBC applicable to Sandy City.

The following amendments are adopted as amendments to the IBC for Sandy City:

(1) A new IBC, Section (F)903.2.13, is added as follows: "(F)903.2.13 An automatic sprinkler system shall be installed in accordance with NFPA 13 throughout buildings containing all occupancies where fire flow exceeds 2,000 gallons per minute, based on Table B105.1 (2) of the 2018 International Fire Code. A one- or two-family dwelling or a town home is not required to have a fire sprinkler system except in accordance with Section 15A-5-203."

(2) A new IBC, Appendix N, is added and adopted as follows: "Appendix N BUILDINGS AND STRUCTURES CONSTRUCTED IN AREAS DESIGNATED AS WILDLAND-URBAN INTERFACE AREAS

AL 101.1 General. Buildings and structures constructed in areas designated as Wildland Urban Interface Areas by Sandy City shall be constructed using ignition resistant construction as determined by the Fire Marshal. Section 502 of the 2006 International Wildland-Urban Interface Code (IWUIC), as promulgated by the International Code Council, shall be used to determine Fire Hazard Severity. The provisions listed in Chapter 5 of the 2006 International Wildland-Urban Interface Code, as modified herein, shall be used to determine the requirements for Ignition Resistant Construction."

(3) In Section 504 of the IWUIC Class I IGNITION-RESISTANT CONSTRUCTION a new Section504.1.1 is added as follows: "504.1.1 General. Subsections 504.5, 504.6, and 504.7 shall only be required on the exposure side of the structure, as determined by the fire code official, where defensible space is less than 50 feet as defined in Section 603 of the 2006 International Wildland-Urban Interface Code."

(4) In Section 505 of the IWUIC Class 2 IGNITION-RESISTANT CONSTRUCTION Subsections505.5 and 505.7 are deleted.

Amended by Chapter 20, 2019 General Session

Part 2
Local Amendments to International Residential Code

15A-4-201 General provision.

The amendments in this part are adopted as amendments to the IRC to be applicable to specified jurisdiction.

Amended by Chapter 341, 2017 General Session

15A-4-206 Amendments to IRC applicable to Park City Corporation or Park City Fire District.

(1) The following amendment is adopted as an amendment to the IRC for the Park City Corporation, Appendix P, of the 2006 IRC is adopted.

(2) The following amendments are adopted as amendments to the IRC for Park City Corporation and Park City Fire District:

(a) IRC, Section R905.7, is deleted and replaced with the following: "R905.7 Wood shingles. The installation of wood shingles shall comply with the provisions of this section. Wood roof covering is prohibited in areas with a combined rating of more than 11 using the following tables with a score of 9 for weather factors.

TABLE		
WILDFIRE HAZARD SEVERITY SCALE		
RATING	SLOPE	VEGETATION
1	less than or equal to 10%	Pinion-juniper
2	10.1 - 20%	Grass-sagebrush
3	greater than 20%	Mountain brush or softwoods

PROHIBITION/EXEMPTION TABLE	
RATING	WOOD ROOF PROHIBITION
less than or equal to 11	wood roofs are allowed
greater than or equal to 12	wood roofs are prohibited"

(b) IRC, Section R905.8, is deleted and replaced with the following: "R905.8 Wood Shakes. The installation of wood shakes shall comply with the provisions of this section. Wood roof covering is prohibited in areas with a combined rating of more than 11 using the following tables with a score of 9 for weather factors.

TABLE		
WILDFIRE HAZARD SEVERITY SCALE		
RATING	SLOPE	VEGETATION
1	less than or equal to 10%	Pinion-juniper
2	10.1 - 20%	Grass-sagebrush
3	greater than 20%	Mountain brush or softwoods

PROHIBITION/EXEMPTION TABLE	
RATING	WOOD ROOF PROHIBITION

	less than or equal to 11	wood roofs are allowed
	greater than or equal to 12	wood roofs are prohibited"

(c) Appendix K is adopted.

Enacted by Chapter 14, 2011 General Session

15A-4-207 Amendments to IRC applicable to Sandy City.

The following amendment is adopted as an amendment to the IRC for Sandy City, a new IRC, Section R324, is added as follows: "Section R324 IGNITION RESISTANT CONSTRUCTION

R324.1 General. Buildings and structures constructed in areas designated as Wildland-Urban Interface Areas by Sandy City shall be constructed using ignition resistant construction as determined by the Fire Marshal. Section 502 of the 2006 International Wildland-Urban Interface Code (IWUIC), as promulgated by the International Code Council, shall be used to determine Fire Hazard Severity. The provisions listed in Chapter 5 of the 2006 IWUIC, as modified herein, shall be used to determine the requirements for Ignition Resistant Construction.

(i) In Section 504 of the IWUIC Class I IGNITION-RESISTANT CONSTRUCTION a new Section504.1.1 is added as follows:

504.1.1 General. Subsections 504.5, 504.6, and 504.7 shall only be required on the exposure side of the structure, as determined by the Fire Marshal, where defensible space is less than 50 feet as defined in Section 603 of the 2006 IWUIC.

(ii) In Section 505 of the IWUIC Class 2 IGNITION-RESISTANT CONSTRUCTION Subsections505.5 and 505.7 are deleted."

Enacted by Chapter 14, 2011 General Session

Part 3
Local Amendments to International Plumbing Code

15A-4-301 General provision.

The amendments in this part are adopted as amendments to the IPC to be applicable to specified jurisdiction.

Enacted by Chapter 14, 2011 General Session

15A-4-303 Amendments to IPC applicable to South Jordan.

The following amendments are adopted as amendments to the IPC for South Jordan:

(1) IPC, Section 312.10.2, is deleted and replaced with the following: "312.10.2 Testing. Reduced pressure principle backflow preventer assemblies, double check-valve assemblies, pressure vacuum breaker assemblies, reduced pressure detector fire protection backflow prevention assemblies, double check detector fire protection backflow prevention assemblies,

hose connection backflow preventers, and spill-proof vacuum breakers shall be tested at the time of installation, immediately after repairs or relocation and at least annually. The testing procedure shall be performed in accordance with one of the following standards: ASSE 5013, ASSE 5015, ASSE 5020, ASSE 5047, ASSE 5048, ASSE 5052, ASSE 5056, CSA-B64.10, or CSAB64.10.1. Assemblies, other than the reduced pressure principle assembly, protecting lawn irrigation systems that fail the annual test shall be replaced with a reduced pressure principle assembly."

(2) IPC, Section 608.16.5, is deleted and replaced with the following: "608.16.5 Connections to lawn irrigation systems. The potable water supply to lawn irrigation systems shall be protected against backflow by a reduced pressure principle backflow preventer." Enacted by Chapter 14, 2011 General Session

Part 4
Local Amendments to International Mechanical Code

15A-4-401 General provision.

No local amendments to the IMC are adopted.

Enacted by Chapter 14, 2011 General Session

Part 5
Local Amendments to International Fuel Gas Code

15A-4-501 General provision.

No local amendments to the IFGC are adopted.

Enacted by Chapter 14, 2011 General Session

Part 6 Local Amendments to National Electrical Code

15A-4-601 General provision.

No local amendments to the NEC are adopted.

Enacted by Chapter 14, 2011 General Session

Part 7
Local Amendments to International Energy Conservation Code

15A-4-701 General provision.

No local amendments to the IECC are adopted.

Enacted by Chapter 14, 2011 General Session

Chapter 5 State Fire Code Act

Part 1 General Provisions

15A-5-101 Title -- Adoption of code.

In accordance with Chapter 1, Part 4, State Fire Code Administration Act, the Legislature repeals the State Fire Code in effect on July 1, 2010, and adopts this chapter as the State Fire Code.

Enacted by Chapter 14, 2011 General Session

15A-5-102 Definitions.

As used in this chapter:

(1) "Appreciable depth" means a depth greater than 1/4 inch.

(2) "AHJ" means "authority having jurisdiction," which is:

(a) the State Fire Marshal;

(b) an authorized deputy of the State Fire Marshal; or

(c) the local fire enforcement authority.

(3) "Division" means the State Fire Marshal Division created in Section 53-7-103.

(4)

(a) "Dwelling Unit" means one or more rooms arranged for the use of one or more individuals living together, as in a single housekeeping unit normally having cooking, living, sanitary, and sleeping facilities.

(b) "Dwelling unit" includes a hotel room, dormitory room, apartment, condominium, sleeping room in a nursing home, or similar living unit.

(5) "Fire jurisdiction" means a contiguous geographic area for which there is a single authority having jurisdiction.

(6) "IFC" means the edition of the International Fire Code adopted under Section 15A-5-103.

(7) "NFPA" means the edition of the National Fire Protection Association adopted under Section15A-5-103.

(8) "Premixed" means the state of an antifreeze and water solution that results from the solution being prepared by the manufacturer with a quality control procedure that ensures that the antifreeze and water solution does not separate.

(9) "UL" means Underwriters Laboratories, Inc.

Amended by Chapter 158, 2015 General Session

15A-5-103 Nationally recognized codes incorporated by reference.

The following codes are incorporated by reference into the State Fire Code:

(1) the International Fire Code, 2018 edition, excluding appendices, as issued by the International Code Council, Inc., except as amended by Part 2, Statewide Amendments and Additions to International Fire Code Incorporated as Part of State Fire Code;

(2) National Fire Protection Association, NFPA 96, Standard for Ventilation Control and Fire Protection of Commercial Cooking Operations, 2017 edition, except as amended by Part 3,

Amendments and Additions to National Fire Protection Association Incorporated as Part of State Fire Code;

(3) National Fire Protection Association, NFPA 1403, Standard on Live Fire Training Evolutions, 2012 edition, except as amended by Part 3, Amendments and Additions to National Fire Protection Association Incorporated as Part of State Fire Code; and

(4) National Fire Protection Association, NFPA 1, Chapter 38, Marijuana Growing, Processing, and Extraction Facilities, 2018 edition.

Amended by Chapter 5, 2019 Special Session 1

15A-5-104 Exemptions from State Fire Code.

(1) As used in this section, "remote yurt" means the same as that term is defined in Subsection15A-1-204(12).

(2) A remote yurt is exempt from the State Fire Code unless otherwise provided by ordinance in accordance with Subsection 15A-1-204(12)(c).

(3) An owner of a remote yurt shall ensure that a fire extinguisher is in the remote yurt. Enacted by

Chapter 111, 2020 General Session

Part 2
Statewide Amendments and Additions to International Fire Code Incorporated as Part of State Fire Code

15A-5-201 General provisions.

The amendments and additions in this part to the IFC are adopted for application statewide.

Enacted by Chapter 14, 2011 General Session

15A-5-202 Amendments and additions to IFC related to administration, permits, definitions, and general and emergency planning.

(1) For IFC, Chapter 1, Scope and Administration:

(a) IFC, Chapter 1, Section 102.5, is deleted and rewritten as follows:

"102.5 Application of residential code.

If a structure is designed and constructed in accordance with the International Residential Code, the provisions of this code apply only as follows:

1. The construction and design provisions of this code apply only to premises identification, fire apparatus access, fire hydrants and water supplies, and construction permits required by Section 105.7.
2. This code does not supercede the land use, subdivision, or development standards established by a local jurisdiction.
3. The administrative, operational, and maintenance provisions of this code apply."

(b) IFC, Chapter 1, Section 102.9, is deleted and rewritten as follows:

"102.9 Matters not provided for.

Requirements that are essential for the public safety of an existing or proposed activity, building or structure, or for the safety of the occupants thereof, which are not specifically provided for by this code, shall be determined by the fire code official on an emergency basis if:

(a) the facts known to the fire code official show that an immediate and significant danger to the public health, safety, or welfare exists; and

(b) the threat requires immediate action by the fire code official. 102.9.1 Limitation of emergency order.

In issuing its emergency order, the fire code official shall:

(a) limit the order to require only the action necessary to prevent or avoid the danger to the public health, safety, or welfare; and

(b) give immediate notice to the persons who are required to comply with the order, that includes a brief statement of the reasons for the fire code official's order.

101.9.2 Right to appeal emergency order.

If the emergency order issued under this section will result in the continued infringement or impairment of any legal right or interest of any party, the party shall have a right to appeal the fire code official's order in accordance with IFC, Chapter 1, Section 109."

(c) IFC, Chapter 1, Section 105.6.16, Flammable and combustible liquids, is amended to add the following section: "12. The owner of an underground tank that is out of service for longer than one year shall receive a Temporary Closure Notice from the Department of Environmental Quality and a copy shall be given to the AHJ."

(d) A new IFC, Chapter 1, Section 109.1.1, Application of residential code, is added as follows: "109.1.1 Application of residential code.

For development regulated by a local jurisdiction's land use authority, the fire code official's interpretation of this code is subject to the advisory opinion process described in Utah Code, Section 13-43-205, and to a land use appeal authority appointed under Utah Code, Section 10-9a-701 or 17-27a-701."

(e) In IFC, Chapter 1, Section 109, a new Section 109.4, Notice of right to appeal, is added as follows: "At the time a fire code official makes an order, decision, or determination that relates to the application or interpretation of this chapter, the fire code official shall inform the person affected by the order, decision, or determination of the person's right to appeal under this section. Upon request, the fire code official shall provide a person affected by an order, decision, or determination that relates to the application or interpretation of this chapter a written notice that describes the person's right to appeal under this section."

(f) IFC, Chapter 1, Section 110.3, Notice of violation, is deleted and rewritten as follows: "110.3 Notice of violation.

If the fire code official determines that a building, premises, vehicle, storage facility, or outdoor area is in violation of this code or other pertinent laws or ordinances, the fire code official is authorized to prepare a written notice of violation that describes the conditions deemed unsafe and, absent immediate compliance, specifies a time for reinspection."

(2) For IFC, Chapter 2, Definitions:

(a) IFC, Chapter 2, Section 202, General Definitions, the following definition is added for Ambulatory Surgical Center: "AMBULATORY SURGICAL CENTER. A building or portion of a building licensed by the Department of Health where procedures are performed that may render patients incapable of self preservation where care is less than 24 hours. See Utah Administrative Code, R432-13, Freestanding Ambulatory Surgical Center Construction Rule."

(b) IFC, Chapter 2, Section 202, General Definitions, the following definition is added for Assisted
Living Facility. "ASSISTED LIVING FACILITY. See Residential Treatment/Support Assisted Living Facility, Type I Assisted Living Facility, and Type II Assisted Living Facility."

(c) IFC, Chapter 2, Section 202, General Definitions, FOSTER CARE FACILITIES is amended as follows: The word "Foster" is changed to the word "Child."

(d) IFC, Chapter 2, Section 202, General Definitions, OCCUPANCY CLASSIFICATION, Educational Group E, Group E, day care facilities, is amended as follows:
(i) On line three delete the word "five" and replace it with the word "four"; and
(ii) On line four after the word "supervision" add the words "child care centers."

(e) IFC, Chapter 2, Section 202, General Definitions, OCCUPANCY CLASSIFICATION, Educational Group E, Five or fewer children, is amended as follows: The word "five" is deleted and replaced with the word "four" in both places.

(f) IFC, Chapter 2, Section 202, General Definitions, OCCUPANCY CLASSIFICATION, Educational Group E, Five or fewer children in a dwelling unit, is amended as follows: The word "five" is deleted and replaced with the word "four" in both places.

(g) IFC, Chapter 2, Section 202, General Definitions, OCCUPANCY CLASSIFICATION, Educational Group E, a new section is added as follows: "Child day care -- residential child care certificate or a license. Areas used for child day care purposes with a residential child care certificate, as described in Utah Administrative Code, R430-50, Residential Certificate Child Care, or a residential child care license, as described in Utah Administrative Code, R430-90, Licensed Family Child Care, may be located in a Group R-2 or R-3 occupancy as provided in Residential Group R-3, or shall comply with the International Residential Code in accordance with Section R101.2."

(h) IFC, Chapter 2, Section 202, General Definitions, OCCUPANCY CLASSIFICATION, Educational Group E, a new section is added as follows: "Child care centers. Each of the following areas may be classified as accessory occupancies:
1. Hourly child care centers, as described in Utah Administrative Code, R381-60, Hourly Child Care Centers;
2. Child care centers, as described in Utah Administrative Code, R381-100, Child Care Centers; and
3. Out-of-school-time programs, as described in Utah Administrative Code, R381-70,Out of School Time Child Care Programs."

(i) IFC, Chapter 2, Section 202, General Definitions, OCCUPANCY CLASSIFICATION, Institutional Group I-1, is amended as follows: Insert "Type I" in front of the words "Assisted living facilities".

(j) IFC, Chapter 2, Section 202, General Definitions, OCCUPANCY CLASSIFICATION, Institutional Group I-1, Five or fewer persons receiving custodial care is amended as follows: On line four after "International Residential Code" the rest of the section is deleted.

(k) IFC, Chapter 2, Section 202, General Definitions, OCCUPANCY CLASSIFICATION, Institutional Group I-2, is amended as follows:
(i) On line three delete the word "five" and insert the word "three";
(ii) On line six the word "foster" is deleted and replaced with the word "child"; and
(iii) On line 10, after the words "Psychiatric hospitals", add the following to the list: "both intermediate nursing care and skilled nursing care facilities, ambulatory surgical centers

with five or more operating rooms, and Type II assisted living facilities. Type II assisted living facilities with five or fewer persons shall be classified as a Group R-4. Type II assisted living facilities with at least six and not more than 16 residents shall be classified as a Group I-1 facility".

(l) IFC, Chapter 2, Section 202, General Definitions, OCCUPANCY CLASSIFICATION, Institutional Group I-4, day care facilities, Classification as Group E, is amended as follows:

(i) On line two delete the word "five" and replace it with the word "four"; and

(ii) On line three delete the words "2 1/2 years or less of age" and replace with the words "under the age of two".

(m) IFC, Chapter 2, Section 202, General Definitions, OCCUPANCY CLASSIFICATION, Institutional Group I-4, day care facilities, Five or fewer occupants receiving care in a dwelling unit, is amended as follows: On lines one and three the word "five" is deleted and replaced with the word "four".

(n) IFC, Chapter 2, Section 202, General Definitions, OCCUPANCY CLASSIFICATION, Residential Group R-3, the words "and single family dwellings complying with the IRC" are added after the word "Residential Group R-3 occupancies".

(o) IFC, Chapter 2, Section 202, General Definitions, OCCUPANCY CLASSIFICATION, Residential Group R-3, Care facilities within a dwelling, is amended as follows: On line three after the word "dwelling" insert "other than child care".

(p) IFC, Chapter 2, Section 202, General Definitions, OCCUPANCY CLASSIFICATION, Residential Group R-3, a new section is added as follows: "Child Care. Areas used for child care purposes may be located in a residential dwelling unit when all of the following conditions are met:

1. Compliance with Utah Administrative Code, R710-8, Day Care Rules, as enacted under the authority of the Utah Fire Prevention Board;

2. Use is approved by the Department of Health under the authority of Utah Code, Title26, Chapter 39, Utah Child Care Licensing Act, and in any of the following categories:

1.1. Utah Administrative Code, R430-50, Residential Certificate Child Care; or

1.2. Utah Administrative Code, R430-90, Licensed Family Child Care; and

1.3 Compliance with all zoning regulations of the local regulator."

(q) IFC, Chapter 2, Section 202, General Definitions, RECORD DRAWINGS, is amended as follows: Delete the words "a fire alarm system" and replace them with "any fire protection system".

(r) IFC, Chapter 2, Section 202, General Definitions, the following definition is added for Residential Treatment/Support Assisted Living Facility. "RESIDENTIAL TREATMENT/ SUPPORT ASSISTED LIVING FACILITY. A residential facility that provides a group living environment for four or more residents licensed by the Department of Human Services, and provides a protected living arrangement for ambulatory, non-restrained persons who are capable of achieving mobility sufficient to exit the facility without the physical assistance of another person."

(s) IFC, Chapter 2, Section 202, General Definitions, the following definition is added for Type I Assisted Living Facility. "TYPE I ASSISTED LIVING FACILITY. A residential facility licensed by the Department of Health that provides a protected living arrangement, assistance with activities of daily living and social care to two or more ambulatory, non-restrained persons

who are capable of mobility sufficient to exit the facility without the assistance of another person. Subcategories are:
Limited Capacity: two to five residents;
Small: six to sixteen residents; and
Large: over sixteen residents."

(t) IFC, Chapter 2, Section 202, General Definitions, the following definition is added for Type II Assisted Living Facility. "TYPE II ASSISTED LIVING FACILITY. A residential facility licensed by the Department of Health that provides an array of coordinated supportive personal and health care services to two or more residents who are:
A. Physically disabled but able to direct his or her own care; or
B. Cognitively impaired or physically disabled but able to evacuate from the facility, orto a zone or area of safety, with the physical assistance of one person. Subcategories are:
Limited Capacity: two to five residents;
Small: six to sixteen residents; and
Large: over sixteen residents."

Amended by Chapter 103, 2019 General Session

15A-5-202.5 Amendments and additions to Chapters 3 and 4 of IFC.

(1) For IFC, Chapter 3, General Requirements:

(a) IFC, Chapter 3, Section 304.1.2, Vegetation, is amended as follows: Delete line six and replace it with: " Utah Administrative Code, R652-122-1300, Minimum Standards for County Wildland Fire Ordinance".

(b) IFC, Chapter 3, Section 310.8, Hazardous environmental conditions, is deleted and rewritten as follows: "1. When the fire code official determines that existing or historical hazardous environmental conditions necessitate controlled use of any ignition source, including fireworks, lighters, matches, sky lanterns, and smoking materials, any of the following may occur:

1.1. If the existing or historical hazardous environmental conditions exist in a municipality, the legislative body of the municipality may prohibit the ignition or use of an ignition source in:

1.1.1. mountainous, brush-covered, forest-covered, or dry grass-covered areas;

1.1.2. within 200 feet of waterways, trails, canyons, washes, ravines, or similar areas;

1.1.3. the wildland urban interface area, which means the line, area, or zone where structures or other human development meet or intermingle with undeveloped wildland or land being used for an agricultural purpose; or

1.1.4. a limited area outside the hazardous areas described in this paragraph 1.1 to facilitate a readily identifiable closed area, in accordance with paragraph 2.

1.2. If the existing or historical hazardous environmental conditions exist in an unincorporated area, the state forester may prohibit the ignition or use of an ignition source in all or part of the areas described in paragraph 1.1 that are within the unincorporated area, after consulting with the county fire code official who has jurisdiction over that area.

1.3. If the existing or historical hazardous environmental conditions exist in a metro township created under Title 10, Chapter 2a, Part 4, Incorporation of Metro Townships and Unincorporated Islands in a County of the First Class on and after May 12, 2015, the metro

township legislative body may prohibit the ignition or use of an ignition source in all or part of the areas described in paragraph 1.1 that are within the township.

2. If a municipal legislative body, the state forester, or a metro township legislative body closes an area to the discharge of fireworks under paragraph 1, the legislative body or state forester shall:

2.1. designate the closed area along readily identifiable features like major roadways, waterways, or geographic features;

2.2. ensure that the boundary of the designated closed area is as close as is practical to the defined hazardous area, provided that the closed area may include areas outside of the hazardous area to facilitate a readily identifiable line; and

2.3. identify the closed area through a written description or map that is readily available to the public.

3. A municipal legislative body, the state forester, or a metro township legislative body may close a defined area to the discharge of fireworks due to a historical hazardous environmental condition under paragraph 1 if the legislative body or state forester:

3.1. makes a finding that the historical hazardous environmental condition has existed in the defined area before July 1 of at least two of the preceding five years;

3.2. produces a map indicating the boundaries, in accordance with paragraph 2, of the defined area described; and

3.3. before May 1 of each year the defined area is closed, provides the map described in paragraph 3.2 to the county in which the defined area is located.

4. A municipal legislative body, the state forester, or a metro township legislative body may not close an area to the discharge of fireworks due to a historical hazardous environmental condition unless the legislative body or state forester provides a map, in accordance with paragraph 3."

(c) IFC, Chapter 3, Section 311.1.1, Abandoned premises, is amended as follows: On line 10 delete the words "International Property Maintenance Code and the".

(d) IFC, Chapter 3, Section 311.5, Placards, is amended as follows: On line three delete the word" shall" and replace it with the word "may".

(2) IFC, Chapter 4, Emergency Planning and Preparedness:

(a) IFC, Chapter 4, Section 403.10.2.1, College and university buildings, is deleted and replaced with the following:

"403.10.2.1 College and university buildings and fraternity and sorority houses.

(a) College and university buildings, including fraternity and sorority houses, shall prepare an approved fire safety and evacuation plan, in accordance with Section 404.

(b) Group R-2 college and university buildings, including fraternity and sorority houses, shall comply with Sections 403.10.2.1.1 and 403.10.2.1.2."

(b) IFC, Chapter 4, Section 405.2, Table 405.2, is amended to add the following footnotes:

(i) "e. Secondary schools in Group E occupancies shall have an emergency evacuation drill for fire conducted at least every two months, to a total of four emergency evacuation drills during the nine-month school year. The first emergency evacuation drill for fire shall be conducted within 10 school days after the beginning of classes. The third emergency evacuation drill for fire, weather permitting, shall be conducted 10 school days after the beginning of the next calendar year. The second and fourth emergency evacuation drills may be substituted by a security or safety drill to include shelter in place, earthquake drill,

or lock down for violence. If inclement weather causes a secondary school to miss the 10day deadline for the third emergency evacuation drill for fire, the secondary school shall perform the third emergency evacuation drill for fire as soon as practicable after the missed deadline."

(ii) "f. In Group E occupancies, excluding secondary schools, if the AHJ approves, the monthly required emergency evacuation drill can be substituted by a security or safety drill to include shelter in place, earthquake drill, or lock down for violence. The routine emergency evacuation drill must be conducted at least every other drill."

(iii) "g. A-3 occupancies in academic buildings of institutions of higher learning are required to have one emergency evacuation drill per year, provided the following conditions are met:

(A) The building has a fire alarm system in accordance with Section 907.2.

(B) The rooms classified as assembly shall have fire safety floor plans as required in Subsection 404.2.2(4) posted.

(C) The building is not classified a high-rise building.

(D) The building does not contain hazardous materials over the allowable quantities by code."

(iv) "h. Notwithstanding any other provision of law, during the 2020-2021 school year, Group E occupancies are not required to conduct an emergency evacuation drill before March 1, 2021. For the period beginning the first day of the 2020-2021 school year and ending February 28, 2021, each calendar month, Group E occupancies shall provide in-class instruction to students in an age-appropriate manner that describes the procedures for emergency evacuation for fire. Group E occupancies shall complete the first monthly instruction no later than 15 days after the day on which the 2020-2021 school year begins. In addition to the monthly instruction, Group E occupancies may provide in-class security or
safety drills to include shelter in place, earthquake drill, or lock down for violence."

(v) "i. Notwithstanding any other provision of law, for the period beginning March 1, 2021,and ending the last day of the 2020-2021 school year, in Group E occupancies, if the AHJ approves, the monthly required emergency evacuation drill can be substituted by a security or safety drill to include shelter in place, earthquake drill, or lock down for violence. The routine emergency evacuation drill must be conducted at least every other month."

Amended by Chapter 4, 2020 Special Session 6

15A-5-203 Amendments and additions to IFC related to fire safety, building, and site requirements.

(1) For IFC, Chapter 5, Fire Service Features:

(a) In IFC, Chapter 5, a new Section 501.5, Access grade and fire flow, is added as follows: "An authority having jurisdiction over a structure built in accordance with the requirements of the International Residential Code as adopted in the State Construction Code, may require an automatic fire sprinkler system for the structure only by ordinance and only if any of the following conditions exist:

(i) the structure:

(A) is located in an urban-wildland interface area as provided in the Utah Wildland Urban Interface Code adopted as a construction code under the State Construction Code; and

(B) does not meet the requirements described in Utah Code, Subsection 65A-8-203(4)(a) and Utah Administrative Code, R652-122-1300, Minimum Standards for County Wildland Fire Ordinance;

(ii) the structure is in an area where a public water distribution system with fire hydrants does not exist as required in Utah Administrative Code, R309-550-5, Water Main Design;

(iii) the only fire apparatus access road has a grade greater than 10% for more than 500 continual feet;

(iv) the total floor area of all floor levels within the exterior walls of the dwelling unit exceeds10,000 square feet; or

(v) the total floor area of all floor levels within the exterior walls of the dwelling unit is double the average of the total floor area of all floor levels of unsprinkled homes in the subdivision that are no larger than 10,000 square feet.

(vi) Exception: A single family dwelling does not require a fire sprinkler system if the dwelling:

(A) is located outside the wildland urban interface;

(B) is built in a one-lot subdivision; and

(C) has 50 feet of defensible space on all sides that limits the propensity of fire spreading from the dwelling to another property."

(b) In IFC, Chapter 5, Section 506.1, Where Required, is deleted and rewritten as follows: "Where access to or within a structure or an area is restricted because of secured openings or where immediate access is necessary for life-saving or fire-fighting purposes, the fire code official, after consultation with the building owner, may require a key box to be installed in an approved location. The key box shall contain keys to gain necessary access as required by the fire code official. For each fire jurisdiction that has at least one building with a required key box, the fire jurisdiction shall adopt an ordinance, resolution, or other operating rule or policy that creates a process to ensure that each key to each key box is properly accounted for and secure."

(c) In IFC, Chapter 5, a new Section 507.1.1, Isolated one- and two-family dwellings, is added as follows: "Fire flow may be reduced for an isolated one- and two-family dwelling when the authority having jurisdiction over the dwelling determines that the development of a full fire flow requirement is impractical."

(d) In IFC, Chapter 5, a new Section 507.1.2, Pre-existing subdivision lots, is added as follows: "507.1.2 Pre-existing subdivision lots.

The requirements for a pre-existing subdivision lot shall not exceed the requirements described in Section 501.5."

(e) In IFC, Chapter 5, Section 510.1, Emergency responder radio coverage in new buildings, is amended by adding: "When required by the fire code official," at the beginning of the first paragraph.

(2) For IFC, Chapter 6, Building Services and Systems:

(a) In IFC, Chapter 6, Section 606.7, Elevator key location, is deleted and rewritten as follows: "Firefighter service keys shall be kept in a "Supra-Stor-a-key" elevator key box or similar box with corresponding key system that is adjacent to the elevator for immediate use by the fire department. The key box shall contain one key for each elevator, one key for lobby control, and any other keys necessary for emergency service. The elevator key box shall be accessed using a 6049 numbered key."

(b) In IFC, Chapter 6, Section 607.1, General, is amended as follows: On line three, after the word "Code", add the words "and NFPA 96".

(3) For IFC, Chapter 7, Fire and Smoke Protection Features, IFC, Chapter 7, Section 705.2, is amended to add the following: "Exception: In Group E Occupancies, where the corridor serves an occupant load greater than 30 and the building does not have an automatic fire sprinkler system installed, the door closers may be of the friction hold-open type on classrooms' doors with a rating of 20 minutes or less only."

Amended by Chapter 103, 2019 General Session

15A-5-204 Amendments and additions to IFC related to fire protection and life safety systems.

For IFC, Chapter 9, Fire Protection and Life Safety Systems:

(1) IFC, Chapter 9, Section 901.2, Construction documents, is amended to add the following at the end of the section: "The code official has the authority to request record drawings ("as builts") to verify any modifications to the previously approved construction documents."

(2) IFC, Chapter 9, Section 901.4.6, Pump and riser room size, is deleted and replaced with the following: "Pump and Riser Room Size. Fire pump and automatic sprinkler system riser rooms shall be designed with adequate space for all installed equipment necessary for the installation and to provide sufficient working space around the stationary equipment. Clearances around equipment shall be in accordance with manufacturer requirements and not less than the following minimum elements:

901.4.6.1 A minimum clear and unobstructed distance of 12 inches shall be provided from the installed equipment to the elements of permanent construction.

901.4.6.2 A minimum clear and unobstructed distance of 12 inches shall be provided between all other installed equipment and appliances.

901.4.6.3 A clear and unobstructed width of 36 inches shall be provided in front of all installed equipment and appliances, to allow for inspection, service, repair or replacement without removing such elements of permanent construction or disabling the function of a required fire-resistance-rated assembly.

901.4.6.4 Automatic sprinkler system riser rooms shall be provided with a clear and unobstructed passageway to the riser room of not less than 36 inches, and openings into the room shall be clear and unobstructed, with doors swinging in the outward direction from the room and the opening providing a clear width of not less than 34 inches and a clear height of the door opening shall not be less than 80 inches.

901.4.6.5 Fire pump rooms shall be provided with a clear and unobstructed passageway to the fire pump room of not less than 72 inches, and openings into the room shall be clear, unobstructed and large enough to allow for the removal of the largest piece of equipment, with doors swinging in the outward direction from the room and the opening providing a clear width of not less than 68 inches and a clear height of the door opening shall not be less than 80 inches."

(3) IFC, Chapter 9, Section 903.2.1.2, Group A-2, is amended to add the following subsection: "4. An automatic fire sprinkler system shall be provided throughout Group A-2 occupancies where indoor pyrotechnics are used."

(4) IFC, Chapter 9, Section 903.2.2, Ambulatory care facilities, is amended as follows: On line two delete the words "entire floor" and replace with the word "building" and delete the last paragraph.

(5) IFC, Chapter 9, Section 903.2.4, Group F-1, Subsection 2, is deleted and rewritten as follows: "A Group F-1 fire area is located more than three stories above the lowest level of fire department vehicle access."

(6) IFC, Chapter 9, Section 903.2.7, Group M, Subsection 2, is deleted and rewritten as follows: "A Group M fire area is located more than three stories above the lowest level of fire department vehicle access."

(7) IFC, Chapter 9, Section 903.2.8 Group R, including all subsections, is deleted and rewritten as follows:

"903.2.8 Group R.

An automatic sprinkler system installed in accordance with Section 903.3 shall be proved throughout all buildings with a Group R fire area.

Exceptions:

1. Detached one- and two-family dwellings and multiple single-family dwellings (townhouses) constructed in accordance with the International Residential Code for One- and Two-Family Dwellings.

2. Single story Group R-1 occupancies with fire areas not more than 2,000 square feet that contain no installed plumbing or heating, where no cooking occurs, and constructed of Type I-A, I-B, II-A, or II-B construction.

3. Group R-4 fire areas not more than 4,500 gross square feet and not containing more than 16 residents, provided the building is equipped throughout with an approved fire alarm system that is interconnected and receives its primary power from the building wiring and a commercial power system."

(8) IFC, Chapter 9, Section 903.2.9, Group S-1, Subsection 2, is deleted and rewritten as follows: "A Group S-1 fire area is located more than three stories above the lowest level of fire department vehicle access."

(9) IFC, Chapter 9, Section 903.3.1.2.3, Attics, is amended by adding the following: "Exception: Sprinkler protection in attics is not required in buildings that are not required to be sprinklered by another section of this code."

(10) IFC, Chapter 9, Section 903.3.5, Water supplies, is amended as follows: On line six, after the word "Code", add "and as amended in the State Construction Code".

(11) IFC, Chapter 9, Section 903.5, Testing and maintenance, is amended to add the following subsection: "903.5.1 Tag and Information. A tag shall be attached to the riser indicating the date the antifreeze solution was tested. The tag shall also indicate the type and concentration of antifreeze solution by volume with which the system is filled, the name of the contractor that tested the antifreeze solution, the contractor's license number, and a warning to test the concentration of the antifreeze solutions at yearly intervals."

(12) IFC, Chapter 9, Section 904.12, Commercial cooking systems, is deleted and rewritten as follows: "The automatic fire extinguishing system for commercial cooking systems shall be of a type recognized for protection of commercial cooking equipment and exhaust systems. Preengineered automatic extinguishing systems shall be tested in accordance with UL300 and listed and labeled for the intended application. The system shall be installed in accordance with this code, its listing and the manufacturer's installation instructions." The exception in Section 904.12 is not deleted and shall remain as currently written in the IFC.

(13) IFC, Chapter 9, Section 904.12.3, Carbon dioxide systems, and Section 904.12.3.1,Ventilation system, are deleted and rewritten as follows:

"904.12.3 existing automatic fire extinguishing systems used for commercial cooking. Existing automatic fire extinguishing systems used for commercial cooking that use dry chemical are prohibited and shall be removed from service.

904.12.3.1 UL300 listed and labeled existing wet chemical fire extinguishing system. Existing wet chemical fire extinguishing systems used for commercial cooking that are not UL300 listed and labeled are prohibited and shall be either removed or upgraded to a UL300 listed and labeled system."

(14) IFC, Chapter 9, Section 904.12.4, Special provisions for automatic sprinkler systems, is amended to add the following subsection: " 904.12.4.2 Existing automatic fire sprinkler systems protecting commercial cooking equipment, hood, and exhaust systems that generate appreciable depth of cooking oils shall be replaced with a UL300 system that is listed and labeled for the intended application."

(15) IFC, Chapter 9, Section 904.12.5.2, Extinguishing system service, is amended to add the following: "Exception: Automatic fire extinguishing systems located in occupancies where usage is limited and less than six consecutive months may be serviced annually if the annual service is conducted immediately before the period of usage, and approval is received from the AHJ."

(16) IFC, Chapter 9, Section 905.3.9 is a new subsection as follows: "Open Parking Garages. Open parking garages shall be equipped with an approved Class I manual standpipe system when fire department access is not provided for firefighting operations to within 150 feet of all portions of the open parking garage as measured from the approved fire department vehicle access. Class I manual standpipe shall be accessible throughout the parking garage such that all portions of the parking structure are protected within 150 feet of a hose connection. Exception: Open parking garages equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1."

(17) IFC, Chapter 9, Section 905.8, Dry Standpipes, Exception is deleted and rewritten as follows: "Where subject to freezing conditions and approved by the fire code official."

(18) IFC, Chapter 9, Section 905.12, Existing buildings, is deleted.

(19) In IFC, Chapter 9, Section 906.1, Exception 2 is amended as follows: on line three after the word "6," delete the remainder of the paragraph.

(20) IFC, Chapter 9, Section 907.2.3 Group E:

(a) The first sentence is deleted and rewritten as follows: "A manual fire alarm system that initiates the occupant notification signal using an emergency voice/alarm communication system that meets the requirements of Section 907.5.2.2, or a manual fire alarm system that initiates an audible and visual occupant notification signal that meets the requirements of Sections 907.4.2.1 and 907.5.2.3, and is installed in accordance with Section 907.6, and with rules made by the Utah Fire Prevention Board in accordance with Title 63G, Chapter 3, Utah Administrative Rulemaking Act, shall be installed in Group E occupancies."

(b) Exception 2, delete entirely.

(c) Exception number 4.2, on line five, delete the words, "emergency voice/alarm communication system" and replace with "fire alarm."

(21) IFC, Chapter 9, 907.8, Inspection, testing, and maintenance, is amended to add the following sentences at the end of the section: "Increases in nuisance alarms shall require the fire alarm system to be tested for sensitivity. Fire alarm systems that continue after sensitivity testing with unwarranted nuisance alarms shall be replaced as directed by the AHJ."

(22) IFC, Chapter 9, Section 915, Carbon Monoxide Detection, is deleted and rewritten as follows:

"915. Carbon Monoxide Detection.

915.1 Where required.

Group I-1, I-2, I-4, and R occupancies located in a building containing a fuel-burning appliance or in a building that has an attached garage shall be equipped with single-station carbon monoxide alarms. The carbon monoxide alarms shall be listed as complying with UL 2034 or UL 2075 and be installed and maintained in accordance with NFPA 720 and the manufacturer's instructions. An open parking garage, as defined in Chapter 2, or an enclosed parking garage, ventilated in accordance with Section 404 of the International Mechanical Code, shall not be considered an attached garage. A minimum of one carbon monoxide alarm shall be installed on each habitable level.

915.2 Interconnection.

Where more than one carbon monoxide alarm is required to be installed within Group I-1, I-2, I-4, or R occupancies, the carbon monoxide alarm shall be interconnected in such a manner that the activation of one alarm will activate all of the alarms. Physical interconnection of carbon monoxide alarms shall not be required where listed wireless alarms are installed and all alarms sound upon activation of one alarm. The alarm shall be clearly audible in all bedrooms over background noise levels with all intervening doors closed.

915.3 Power source.

In new construction, required carbon monoxide alarms shall receive their primary power from the building wiring where such wiring is served from a commercial source and shall be equipped with a battery backup. Carbon monoxide alarms with integral strobes that are not equipped with battery backup shall be connected to an emergency electrical system. Carbon monoxide alarms shall emit a signal when the batteries are low. Wiring shall be permanent and without a disconnecting switch other than as required for overcurrent protection. Exceptions.

1. Carbon monoxide alarms are not required to be equipped with battery backup wherethey are connected to an emergency electrical system.
2. Hard wiring of carbon monoxide alarms in existing areas shall not be required where the alterations or repairs do not result in the removal of interior wall or ceiling finishes exposing the structure. Unless there is an attic, crawl space, or basement available that could provide access for hard wiring, without the removal of interior finishes.

915.4 Group E.

A carbon monoxide detection system shall be installed in new buildings that contain Group E occupancies in accordance with this section. A carbon monoxide detection system shall be installed in existing buildings that contain Group E occupancies in accordance with IFC, Chapter 11, Section 1103.9.

915.4.1 Where required.

In Group E occupancies, a carbon monoxide detection system shall be provided where a fuel-burning appliance, a fuel-burning fireplace, or a fuel-burning forced air furnace is present.

915.4.2 Detection equipment.

Each carbon monoxide detection system shall be installed in accordance with NFPA 720 and the manufacturer's instructions, and be listed, for single station detectors, as complying with UL 2034, and for system detectors, as complying with UL 2075.

915.4.3 Combination detectors.

A combination carbon monoxide/smoke detector is an acceptable alternative to a carbon monoxide detection system if the combination carbon monoxide/smoke detector is listed in accordance with UL 2075 and UL 268.

915.4.4 Power source.

Each carbon monoxide detection system shall receive primary power from the building wiring if the wiring is served from a commercial source. If primary power is interrupted, each carbon monoxide detection system shall receive power from a battery. Wiring shall be permanent and without a disconnecting switch other than that required for over-current protection.

915.4.5 Maintenance.

Each carbon monoxide detection system shall be maintained in accordance with NFPA 720. A carbon monoxide detection system that becomes inoperable or begins to produce end of-life signals shall be replaced."

Amended by Chapter 103, 2019 General Session

15A-5-205 Amendments and additions to IFC related to means of egress and special processes and uses.

(1) In IFC, Chapter 10, Section 1008.2.1, Illumination level under normal power, delete exception.

(2) In IFC, Chapter 10, Section 1010.1.9, Door operations, a new exception is added as follows: "Exception: Group E occupancies for purposes of a lockdown or a lockdown drill in accordance with Section 1010.1.9.6 Exception 5."

(3) In IFC, Chapter 10, Section 1010.1.9.2, Hardware height, "Exception:" is deleted and replaced with "Exceptions: 1."

(4) In IFC, Chapter 10, Section 1010.1.9.2, Hardware height, Exception 2 is added as follows: "2. Group E occupancies for purposes of a lockdown or a lockdown drill may have one lock below 34 inches in accordance with Section 1010.1.9.6 Exception 5."

(5) In IFC, Chapter 10, Section 1010.1.9.4, Locks and latches, Item 7 is added after the existing Item 6 as follows: " 7. Group E occupancies for purposes of a lockdown or a lockdown drill in accordance with Section 1010.1.9.6 Exception 5."

(6) In IFC, Chapter 10, Section 1010.1.9.5, Bolt locks, Exception 6 is added after the existing Exception 5 as follows: "6. Group E occupancies for purposes of a lockdown or a lockdown drill in accordance with Section 1010.1.9.6 Exception 5."

(7) In IFC, Chapter 10, Section 1010.1.9.6, Unlatching, Exception 5 is added after the existing Exception 4 as follows: "5. Group E occupancies may have a second lock on classrooms for purposes of a lockdown or lockdown drill, if:

5.1 The application of the lock is approved by the code official.

5.2 The unlatching of any door or leaf does not require more than two operations.

5.3 The lock can be released from the opposite side of the door on which it is installed.

5.4 The lock is only applied during lockdown or during a lockdown drill.

5.5 The lock complies with all other state and federal regulations, including the Americans with Disabilities Act of 1990, 42 U.S.C. Sec. 12101 et seq."

(8) IFC, Chapter 10, Section 1010.1.9.7, Controlled egress doors in Groups I-1 and I-2, after existing Item 8 add Item 9 as follows: " 9. The secure area or unit with special egress locks shall be located at the level of exit discharge in Type V construction."

(9) In IFC, Chapter 10, Section 1010.1.9.8.1, Delayed egress locking system, Item 9 is added after the existing Item 8 as follows: " 9. The secure area or unit with delayed egress locks shall be located at the level of exit discharge in Type V construction."

(10) In IFC, Chapter 10, Section [BE] 1011.5.2, Riser height and tread depth, Exception 3 is deleted and replaced with the following: " 3. In Group R-3 occupancies, within dwelling units in Group R-2 occupancies, and in Group U occupancies that are accessory to a Group R-3 occupancy, or accessory to individual dwelling units in Group R-2 occupancies, the maximum riser height shall be 8 inches (203 mm) and the minimum tread depth shall be 9 inches (229 mm). The minimum winder tread depth at the walk line shall be 10 inches (254 mm), and the minimum winder tread depth shall be 6 inches (152 mm). A nosing not less than 0.75 inch (19.1 mm) but not more than 1.25 inches (32 mm) shall be provided on stairways with solid risers where the tread depth is less than 10 inches (254 mm)."

(11) IFC, Chapter 10, Section [BE] 1011.11, Handrails, is amended to add the following exception: " 5. In occupancies in Group R-3, as applicable in Section 1014 and in occupancies in Group U, which are accessory to an occupancy in Group R-3, as applicable in Section 1014, handrails shall be provided on at least one side of stairways consisting of four or more risers."

(12) IFC, Chapter 10, Section 1013.5, Internally illuminated exit signs, delete and rewrite the last sentence to read "Exit signs shall be illuminated at all times, including when the building is not fully occupied."

(13) IFC, Chapter 10, Section 1025, Luminous Egress Path Markings, is deleted.

(14) IFC, Chapter 10, Section 1029.15, Seat stability, delete Exception 2 and renumber exceptions.

(15) IFC, Chapter 10, Section 1031.2.1, Security devices and egress locks, is amended to add the following: On line three, after the word "fire", add the words "and building."

Amended by Chapter 103, 2019 General Session

15A-5-205.5 Amendments to Chapters 11 and 12 of IFC.

(1) For IFC, Chapter 11, Construction Requirements for Existing Buildings:

(a) In IFC, Chapter 11, Section 1103.2 Emergency Responder Radio Coverage in Existing Buildings, is amended as follows: On line two after the title, the following is added: "When required by the fire code official".

(b) IFC, Chapter 11, Section 1103.5.1 Group A-2, is deleted and replaced with the following: "1103.5.1 Group A-2. An automatic fire sprinkler system shall be provided throughout existing Group A-2 occupancies where indoor pyrotechnics are used."

(c) IFC, Chapter 11, Section 1103.6, Standpipes, is deleted.

(d) In IFC, Chapter 11, 1103.7, Fire Alarm Systems, is deleted and rewritten as follows: "1103.7,Fire Alarm Systems. The following shall have an approved fire alarm system installed in accordance with Utah Administrative Code, R710-4, Buildings Under the Jurisdiction of the State Fire Prevention Board:

1. a building with an occupant load of 300 or more persons that is owned or operated by the state;

2. a building with an occupant load of 300 or more persons that is owned or operated by an institution of higher education; and

3. a building with an occupant load of 50 or more persons that is owned or operated by a school district, private school, or charter school.

Exception: the requirements of this section do not apply to a building designated as an Institutional Group I (as defined in IFC 202) occupancy."

(e) IFC, Chapter 11, 1103.7.1 Group E, 1103.7.2 Group I-1, 1103.7.3 Group I-2, 1103.7.4 Group I-3, 1103.7.5 Group R-1, 1103.7.5.1 Group R-1 hotel and motel manual fire alarm system, 1103.7.5.1.1 Group R-1 hotel and motel automatic smoke detection system, 1103.7.5.2 Group R-1 boarding and rooming houses manual fire alarm system, 1103.7.5.2.1 Group R-1 boarding and rooming houses automatic smoke detection system, 1103.7.6 Group R-2 are deleted.

(f) IFC, Chapter 11, Section 1103.9, Carbon monoxide alarms, is deleted and rewritten as follows:

"1103.9 Carbon Monoxide Detection.

Existing Groups E, I-1, I-2, I-4, and R occupancies shall be equipped with carbon monoxide detection in accordance with Section 915."

(2) For IFC, Chapter 12, Energy Systems:

(a) Delete the section title "1204.2.1 Solar photovoltaic systems for Group R-3 buildings" and replace with the section title "1204.2.1 Solar photovoltaic systems for Group R-3 and buildings constructed in accordance with IRC."

(b) Section 1204.2.1, Solar photovoltaic systems for Group R-3 buildings, Exception 1 is deleted, Exception 2 is renumbered to 1 and a second exception is added as follows: "2. Reduction in pathways and clear access width are permitted where a rational approach has been used and the reduction is warranted and approved by the Fire Code Official."

(c) Section 1204.3.1 Perimeter pathways, and 1204.3.2 Interior pathways, are deleted and rewritten as follows: "1204.3.1 Perimeter pathways. There shall be a minimum three foot wide (914 mm) clear perimeter around the edges of the roof. The solar installation shall be designed to provide designated pathways. The pathways shall meet the following requirements:

1. The pathway shall be over areas capable of supporting the live load of fire fighters accessing the roof.
2. The centerline axis pathways shall be provided in both axes of the roof. Center line axis pathways shall run where the roof structure is capable of supporting the live load of fire fighters accessing the roof.
3. Smoke and heat vents required by Section 910.2.1 or 910.2.2 shall be provided with a clear pathway width of not less than three feet (914 mm) to the vents.
4. Access to roof area required by Section 504.3 or 1011.12 shall be provided with a clear pathway width of not less than three feet (914 mm) around access opening and at least three feet (914 mm) clear pathway to parapet or roof edge."

(d) Section 1204.3.3 Smoke ventilation, is deleted and rewritten as follows: "1204.3.2 Smoke ventilation. The solar installation shall be designed to meet the following requirements:

1. Arrays shall be no greater than 150 feet (45720 mm) by 150 feet (45720 mm) in distance in either axis in order to create opportunities for fire department smoke ventilation operations.
2. Smoke ventilation options between array sections shall be one of the following:

2.1 A pathway six feet (1829 mm) or greater in width.

2.2 A pathway three feet (914 mm) or greater in width and bordering roof skylights or smoke and heat vents when required by Section 910.2.1 or Section 910.2.2.

2.3 Smoke and heat vents designed for remote operation using devices that can be connected to the vent by mechanical, electrical, or any other suitable means, protected as necessary to remain operable for the design period. Controls for remote operation shall be located in a control panel, clearly identified and located in an approved location."

Amended by Chapter 103, 2019 General Session

15A-5-205.6 Amendments and additions to Chapter 33 of IFC.

(1) IFC, Chapter 33, Section 3310.1, Required access, is deleted and rewritten as follows:

"3310.1 Required access.

3310.1.1 Approved vehicle access. Approved vehicle access for fire fighting shall be provided as described in Chapter 5 of this code to all construction or demolition sites. 3310.1.2 Fire department connections. Vehicle access shall be provided to within 100 feet of temporary or permanent fire department connections.

3310.1.3 Type of access. Vehicle access shall be provided by either temporary or permanent roads.

3310.1.3.1 Temporary road requirements. Temporary roads shall be constructed with a minimum of site specific required structural fill for permanent roads and road base, or other approved material complying with local standards.

3310.1.3.2 Reports. Compaction reports may be required. An engineer's review and certification of a temporary fire department access road is not required.

3310.1.3.3 Local jurisdictions. If an improvement completion assurance has been posted in accordance with Section 10-9a-604.5, a local jurisdiction may not require permanent roads, or asphalt or concrete on temporary roads, before final approval of the structure served by the road.

3310.1.4 Maintenance. Temporary roads shall be maintained until permanent fire apparatus access roads are available.

3310.1.5 Time line. Temporary or permanent fire department access roads shall be functional before construction above the foundation begins and before an appreciable amount of combustible construction materials are on site."

(2) IFC, Chapter 33, Section 3310.2, Key boxes, is deleted.

Enacted by Chapter 228, 2018 General Session

15A-5-206 Amendments and additions to IFC related to hazardous materials, explosives, fireworks, and flammable and combustible liquids.

(1) For IFC, Hazardous Materials - General Provisions, Chapter 50, Table 5003.1.1(1), Maximum Allowable Quantity per Control Area of Hazardous Materials Posing a Physical Hazard, apply footnote d to Explosives, Storage, Solid Pounds.

(2) For IFC, Explosives and Fireworks, IFC, Chapter 56, Section 5601.1.3, Fireworks, Exception4 is amended to add the following sentence at the end of the exception: "The use of fireworks for display and retail sales is allowed as set forth in Utah Code, Title 53, Chapter 7, Utah Fire Prevention and Safety Act, Sections 53-7-220 through 53-7-225; Utah Code, Title 11, Chapter 3, County and Municipal Fireworks Act; Utah Administrative Code, R710-2; and the State Fire Code."

(3) For IFC, Chapter 57, Flammable and Combustible Liquids:

(a) IFC, Chapter 57, Section 5701.4, Permits, is amended to add the following at the end of the section: "The owner of an underground tank that is out of service for longer than one year

shall receive a Temporary Closure Notice from the Department of Environmental Quality, and a copy shall be given to the AHJ."

(b) IFC, Chapter 57, Section 5706.1, General, is amended to add the following special operation: "8. Sites approved by the AHJ".

(c) IFC, Chapter 57, Section 5706.2, Storage and dispensing of flammable and combustible liquids on farms and construction sites, is amended to add the following: On line five, after the words "borrow pits", add the words "and sites approved by the AHJ".

(4) For IFC, Chapter 61, Liquefied Petroleum Gas:

(a) IFC, Chapter 61, Section 6101.2, Permits, is amended as follows: On line two, after the word"105.7", add "and the adopted LP Gas rules".

(b) IFC, Chapter 61, Section 6103.1, General, is deleted and rewritten as follows: "General. LPG as equipment shall be installed in accordance with NFPA 54, NFPA 58, the adopted LP Gas rules, and the International Fuel Gas Code, except as otherwise provided in this chapter."

(c)Chapter 61, Section 6109.12, Location of storage outside of buildings, is amended as follows: In Table 6109.12, Doorway or opening to a building with two or more means of egress, with regard to quantities 720 or less and 721 -- 2,500, the currently stated "5" is deleted and replaced with "10".

(d) IFC, Chapter 61, Section 6109.15.1, Automated cylinder exchange stations, is amended as follows: Item # 4 is deleted.

(e) IFC, Chapter 61, Section 6110.1, Temporarily out of service, is amended as follows: Online two, after the word "discontinued", add the words "for more than one year or longer as allowed by the AHJ,".

Amended by Chapter 103, 2019 General Session

15A-5-208 Blasting permits.

(1) An operational permit is required for the use of any quantity of explosives or explosive materials for the purpose of blasting.

(2) The State Fire Marshal Division shall issue blasting permits:

(a) for those locations where the local fire department that has jurisdiction of the location of the blast does not have a procedure in place for issuing blasting permits; and

(b) for multiple blasting activities that are part of one project and that involve conducting blasts in the jurisdictions of more than one fire department.

(3) The State Fire Marshal Division shall adopt rules pursuant to Title 63G, Chapter 3, Utah Administrative Rulemaking Act, as necessary to implement the procedure of issuing blasting permits under this section.

Enacted by Chapter 84, 2012 General Session

Part 3 Amendments and Additions to National Fire Protection Association Incorporated as Part of State Fire Code

15A-5-301 General provisions.

The amendments and additions in this part to the NFPA are adopted for application statewide.

Enacted by Chapter 14, 2011 General Session

15A-5-302 Amendments and additions to NFPA related to National Fire Alarm and Signaling Code.

For NFPA 72, National Fire Alarm and Signaling Code, 2016 edition:

(1) NFPA 72, Chapter 2, Section 2.2, NFPA Publications, is amended to add the following NFPA standard: "NFPA 20, Standard for the Installation of Stationary Pumps for Fire Protection, 2016 edition."

(2) NFPA 72, Chapter 10, Section 10.5.1, System Designer, Subsection 10.5.1.3(2), is deleted and rewritten as follows: "National Institute of Certification in Engineering Technologies (NICET) fire alarm level II certified personnel."

(3) NFPA 72, Chapter 10, Section 10.5.2, System Installer, Subsection 10.5.2.3(2), is deleted and r rewritten as follows: "National Institute of Certification in Engineering Technologies (NICET) fire alarm level II certified personnel."

(4) NFPA 72, Chapter 10, Section 10.5.3, Inspection, Testing, and Maintenance Personnel, Subsection 10.5.3.1, is deleted and rewritten as follows:
"Service personnel shall be qualified and experienced in the inspection, testing, and maintenance of fire alarm systems. Qualified personnel shall meet the certification requirements stated in rule made by the State Fire Prevention Board in accordance with Title 63G, Chapter 3, Utah Administrative Rulemaking Act."

(5) NFPA 72, Chapter 10, Section 10.12, Fire Alarm Signal Deactivation, Subsection 10.13.2, is amended to add the following sentence: "When approved by the AHJ, the audible notification appliances may be deactivated during the investigation mode to prevent unauthorized reentry into the building."

(6) In NFPA 72, Chapter 23, Section 23.8.5.9, Signal Initiation -- Fire Pump, Subsection 23.8.5.9.3 is added as follows: "Automatic fire pumps shall be supervised in accordance with NFPA 20, Standard for the Installation of Stationary Pumps for Fire Protection, and the AHJ."

(7) NFPA 72, Chapter 26, Section 26.3.4, Indication of Central Station Service, Subsection 26.3.4.7 is amended as follows: On line two, after the word "notified", insert the words "without delay" and delete the words, "within 30 calendar days".

Amended by Chapter 103, 2019 General Session

15A-5-303 Amendments and additions to NFPA related to manufacture, transportation, storage, and retail sales of fireworks.

(1) For purposes of this section and subject to Subsection (2), the Utah Fire Prevention Board shall adopt standards by rule for the retail sales of consumer fireworks, and in doing so, shall consider the applicable provisions of NFPA 1124, Chapter 7, Retail Sales of Consumer Fireworks.

(2) NFPA 1124 Manufacture, Transportation, Storage, and Retail Sales of Fireworks and Pyrotechnic Articles:

(a) In NFPA 1124, Chapter 7, Section 7.2, Special Limits for Retail Sales of Consumer Fireworks, Subsection 7.2.8 is added as follows: "Display of Class C common state approved explosives inside of buildings protected throughout with an automatic fire sprinkler system shall not exceed 25% of the area of the retail sales floor or exceed 600 square feet, whichever is less."

(b) In NFPA 1124, Chapter 7, Section 7.2, Special Limits for Retail Sales of Consumer Fireworks, Subsection 7.2.9 is added as follows: "Rack storage of Class C common state approved explosives inside of buildings is prohibited."

(c) NFPA 1124, Chapter 7, Section 7.3.1, Exempt Amounts, Subsection 7.3.1.1, is deleted and rewritten as follows: "Display of Class C common state approved explosives inside of buildings not protected with an automatic fire sprinkler system shall not exceed 125 pounds of pyrotechnic composition."

(d) NFPA 1124, Chapter 7, Section 7.3.15.2, Height of Sales Displays, Subsection 7.3.15.2.2, is amended as follows: On line three delete "12 ft. (3.66m)" and replace it with "6 ft.".

Enacted by Chapter 14, 2011 General Session

15A-5-304 Amendments and additions to NFPA related to Automatic Fire Sprinklers Systems.

(1) NFPA 13, Installation of Sprinkler Systems, 2016 edition.

(a) NFPA 13, Chapter 8, Section 15.22, System Subdivision, is deleted and rewritten as follows:
"8.15.22 System Subdivision - Floor/Zone Control Valves.
Individual floor/zone control valves shall be used at the riser at each floor for connections to piping serving floor areas in excess of 5,000 square feet."

(b) NFPA 13, Chapter 8, Section 8.17.1.1, Local Waterflow Alarms, is amended by adding a new subsection as follows:
"8.17.1.1.1 Single Tenant Occupancies.
An approved audible/visual waterflow alarm (horn/strobe) shall be provided in the interior of the building, in a normally occupied location, to alert the occupants of the fire sprinkler system activation."

(c) NFPA 13, Chapter 8, Section 8.17.1.1, Local Waterflow Alarms, is amended by adding a new subsection as follows:
"8.17.1.1.2 Multi-Tenant Occupancies.
An approved audible/visual waterflow alarm (horn/strobe) shall be provided in the interior of each tenant space, in a normally occupied location, to alert the occupants of the fire sprinkler system activation."

(d) NFPA 13, Chapter 8, Section 8.17.1.1, Local Waterflow Alarms, is amended by adding a new subsection as follows:
"8.17.1.1.3 Exterior Waterflow Alarm.
An approved audible/visual waterflow alarm (horn/strobe) shall be provided on the exterior of the building in a location approved by the AHJ."

(2) NFPA 13D, Installation of Sprinkler Systems in One- and Two-Family Dwellings and Manufactured Homes, 2013 edition.

(a) NFPA 13D, Chapter 7, Section 7.6, Alarms, is amended by adding a new subsection as follows:
"7.6.1 Exterior Waterflow Alarm.
When an alarm initiating device is included, an approved audible/visual waterflow alarm (horn/strobe) shall be provided on the exterior of the building in a location approved by the AHJ."

(b) NFPA 13D, Chapter 7, Section 7.6, Alarms, is amended by adding a new subsection as follows:
"7.6.2 Interior Alarm.

When an alarm initiating device is included, an interior fire alarm notification appliance is also required to sound throughout the dwelling. An approved audible sprinkler flow alarm to alert the occupants of the dwelling in a normally occupied location when the flow switch is activated must be provided."

(3) NFPA, Standard 13R, Installation of Sprinkler Systems in Residential Occupancies up to and Including Four Stories in Height, 2013 edition.

(a) NFPA 13R, Chapter 6, Section 6.8, Valves, is amended by adding a new subsection as follows:

"6.8.9 Floor/Zone Control Valves.

Individual floor/zone control valves shall be used at the riser at each floor for connections to piping serving floor areas in excess of 5,000 square feet."

(b) NFPA 13R, Chapter 6, Section 16, Alarms, is amended by adding a new subsection as follows:

"6.16.1.1 Local Waterflow Alarms.

An approved audible/visual waterflow alarm (horn/strobe) shall be provided in the interior of each residential unit/tenant space, in a normally occupied location, to alert the occupants of the fire sprinkler system activation."

(c) NFPA 13R, Chapter 6, Section 16, Alarms, is amended by adding a new subsection as follows:

"6.16.1.2 Exterior Waterflow Alarm.

An approved audible/visual waterflow alarm (horn/strobe) shall be provided on the exterior of the building in a location approved by the AHJ."

Amended by Chapter 103, 2019 General Session

Chapter 6 Additional Construction Requirements

Part 1 Nitrogen Oxide Emission Limits for Natural Gas-fired Water Heaters

15A-6-101 Title.

(1) This chapter is known as "Additional Construction Requirements."

(2) This part is known as "Nitrogen Oxide Emission Limits for Natural Gas-Fired Water Heaters. "Enacted by Chapter 249, 2016 General Session

15A-6-102 Nitrogen Oxide emission limits for natural gas-fired water heaters.

(1) As used in this section:

(a) "BTU" means British Thermal Unit.

(b)

(i) "Heat input" means the heat of combustion released by fuel burned in a water heater based on the heating value of the fuel.

(ii) "Heat input" does not include the enthalpy of a water heater's incoming combustion air.

(c) "Heat output" means the enthalpy of a water heater's working fluid output.

(d) "Natural gas-fired water heater" means a device that heats water:

(i) using natural gas combustion;
(ii) for use external to the device at a pressure that is less than or equal to 160 pounds per square inch gage; and
(iii) to a thermostatically controlled temperature less than or equal to: (A) 210 degrees Fahrenheit; or (B) 99 degrees Celsius.

(e) "ppm" means parts of Nitrogen Oxide per million parts of water heater air output.

(f) "Recreational vehicle" means the same as that term is defined in Section 13-14-102.

(2) On and after July 1, 2018, a person may not sell or install a natural gas-fired water heater with an emission rate greater than the following limits:

(a) except as provided in Subsection (6), for a water heater that has a heat input of less than or equal to 75,000 BTU per hour that is not installed in a mobile home, a limit of:
(i) 10 nanograms per Joule of heat output; or
(ii) 15 ppm, corrected to 3% oxygen;

(b) for a water heater that has a heat input of greater than 75,000 BTU per hour and less than 2,000,000 BTU per hour that is not installed in a mobile home, a limit of:
(i) 14 nanograms per Joule of heat output; or
(ii) 20 ppm, corrected to 3% oxygen;

(c) for a water heater installed in a mobile home, a limit of:
(i) 40 nanograms per Joule of heat output; or
(ii) 55 ppm, corrected to 3% oxygen;

(d) for a pool or spa water heater with a heat input that is less than or equal to 400,000 BTU per hour, a limit of:
(i) 40 nanograms per Joule of heat output; or
(ii) 55 ppm, corrected to 3% oxygen; and

(e) for a pool or spa water heater with a heat input of greater than 400,000 BTU per hour and less than 2,000,000 BTU per hour, a limit of: (i) 14 nanograms per Joule of heat output; or (ii) 20 ppm, corrected to 3% oxygen.

(3) A water heater manufacturer shall use California South Coast Air Quality Management District Method 100.1 to calculate the emissions rate of a water heater subject to this section.

(4) A water heater manufacturer shall display on a water heater subject to this section, as a permanent label, the model number and the Nitrogen Oxide emission rate of the water heater.

(5) The requirements of this section do not apply to:
(a) a water heater using a fuel other than natural gas;
(b) a water heater used in a recreational vehicle;
(c) a water heater manufactured in the state for sale and shipment outside of the state; or(d) a water heater manufactured before July 1, 2018.

(6) A person may sell or install a natural gas-fired water heater with an emission rate greater than the limits established in Subsection (2)(a) if:
(a) the water heater is replacing a water heater of equal BTUs per hour;
(b) there is not available for purchase in the United States a water heater that:
(i) has an input of equal BTUs per hour as the water heater being replaced; and
(ii) meets the limits established in Subsection (2)(a); and

(c) the purpose of the water heater is to heat water and provide space heating. Amended by

Chapter 136, 2020 General Session

Part 2 Insulated Concrete Forms

15A-6-201 Polyurethane insulated concrete forms.

(1) Notwithstanding any other provision of this title, a governing body in the state that issues a building permit may not:
  (a) deny issuing a building permit to a project solely because the project uses polyurethane insulated concrete form block that complies with Subsection (2); or
  (b) require a project to surface flame retardants on polyurethane insulated concrete form block that has a flame spread that is less than or equal to 25.

(2) A project may use polyurethane insulated concrete form block if:
  (a) the polyurethane insulated concrete form block is manufactured using expanded polyurethane foam that:
    (i) has a flame spread index that is less than or equal to 50;
    (ii) has a smoke index that is less than 350; and
    (iii) is capable of withstanding fluid pressure created by fresh concrete; and
  (b) the project is designed and stamped by a structural engineer licensed in the state.

Enacted by Chapter 249, 2016 General Session

15A-6-202 Non-polyurethane insulating concrete forms.

(1) Notwithstanding any other provision of this title, a governing body in the state that issues a building permit may not:
  (a) deny issuing a building permit to a project solely because the project uses non- polyurethane insulating concrete form block that complies with Subsection (2); or
  (b) require a project to apply additional flame retardants to the surface of non- polyurethane insulating concrete form block that has a flame spread that is less than or equal to 25.

(2) A project may use non-polyurethane insulating concrete form block if:
  (a) the non-polyurethane insulating concrete form block is manufactured using foam plastic insulation that complies with applicable requirements in Title 15A, State Construction and Fire Codes Act, for flame spread index and smoke development index;
  (b) the non-polyurethane insulating concrete form block complies with any other requirements applicable to insulating concrete forms in Title 15A, State Construction and Fire Codes Act; and
  (c) the project is designed and stamped by a structural engineer who is licensed in the state.

Enacted by Chapter 249, 2016 General Session